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# BEFORE THE ARIZONA CORPORATION COMM RECEIVED

# **COMMISSIONERS**

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JEFF HATCH-MILLER, Chairman WILLIAM A. MUNDELL MARC SPITZER MIKE GLEASON KRISTEN K. MAYES

AZ CORP COMMISSION DOCUMENT CONTROL

IN THE MATTER OF REVIEW AND POSSIBLE REVISION OF THE ARIZONA UNIVERSAL SERVICE FUND RULES DOCKET NO. RT 00000H-97-0137

AT&T'S ATTACHMENTS TO COMMENTS SUBMITTED

AT&T Communications of the Mountain States, Inc. and TCG Phoenix (collectively "AT&T") submitted Comments in response to the Arizona Local Exchange Carriers Association's ("ALECA") proposed revisions to the Arizona Universal Service Fund ("AUSF") on June 30, 2005. AT&T inadvertently omitted its Attachments to those comments and they are being submitted to you today. For your convenience we are resubmitting the entire filing.

Respectfully submitted this 1st day of July, 2005.

AT&T Communications of the Mountain States, Inc. and TCG Phoenix

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# CERTIFICATE OF SERVICE

(Docket No. RT-00000H-97-0137)

I certify that the original and 13 copies of AT&T's Comments and Attachments were sent by overnight delivery on July 1, 2005 to:

Arizona Corporation Commission Docket Control - Utilities Division 1200 West Washington Street Phoenix, AZ 85007

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# BEFORE THE ARIZONA CORPORATION COMMISSION

# **COMMISSIONERS**

JEFF HATCH-MILLER, Chairman WILLIAM A. MUNDELL MARC SPITZER MIKE GLEASON KRISTEN K. MAYES

IN THE MATTER OF REVIEW AND POSSIBLE REVISION OF THE ARIZONA UNIVERSAL SERVICE FUND RULES

DOCKET NO. RT 00000H-97-0137

AT&T's COMMENTS ON ALECA'S PROPOSED REVISION

Pursuant to Commission Order dated April 13, 2005, AT&T Communications of the Mountain States, Inc. and TCG Phoenix (collectively "AT&T") hereby submit these Comments in response to the Arizona Local Exchange Carriers Association's ("ALECA") proposed revisions to the Arizona Universal Service Fund ("AUSF").

# INTRODUCTION

ALECA contends, and Staff agrees, that the Federal Universal Service Funding ("Federal USF") mechanisms, particularly those targeted to rural, insular, and high cost areas, have undergone significant changes since the establishment of the AUSF. As a consequence of these changes, both Staff and ALECA assert that the AUSF rules are ripe for re-examination. AT&T concurs.

As the Commission is aware, ALECA provided a proposal for the revision of the AUSF rules. ALECA based its proposal upon the following assertions: (a) the administration of the Federal USF "works," thus AUSF should employ similar mechanics for its administration; (b) the utilization rate of the AUSF is artificially low; (c) uncontrolled growth on the Federal USF is creating uncertainty for the continued cost

recovery for rural incumbent local exchange carriers ("ILECs"); and (d) "underserved" and un-served areas of the State are being ignored. Given this foundation, ALECA concludes that "[i]t is imperative that the AUSF Rules be revised so that AUSF is accessible to rural ILECs, and the administrative procedures controlling cost recovery through AUSF are efficient, equitable, and economically feasible." AT&T agrees that it is, indeed, imperative that the Commission revise the AUSF rules; however, AT&T disagrees with ALECA's proposed revisions. To merely transfer the mechanics of one unwieldy social program (i.e., Federal USF) to Arizona, without a comprehensive evaluation of the underlying assumptions, methods, and administration is illogical. Adopting the same obsolete and flawed funding mechanism will not address the issues that challenge AUSF; rather, a comprehensive evaluation of the underlying assumptions concerning AUSF is critical to the survival and evolution of AUSF. Moreover, such evaluation is also critical to Arizona's ability to ensure telecommunications service in rural, high-cost areas in the future.

Consistent with its belief that the assumptions that underlie AUSF funding should be re-examined as well, AT&T will not provide specific rules comments, nor will it attempt to "revise" ALECA's revisions that are, without the appropriate context, at a minimum premature. Instead, AT&T will discuss the "context," informed by current research, analyses, and relevant reports, in which this rulemaking should proceed.

# **DISCUSSION**

I. Serious AUSF Evaluation Begins with a True Picture of the Current State of the Telecommunications Marketplace in Arizona.

<sup>&</sup>lt;sup>1</sup> See e.g., ALECA Proposal at p. 3 bullets 1, 2 and 5 and proposed rules R14-2-1303A(1)and (2).

Despite the incremental nature of policy making in general, the intersection of multiple policy initiatives over time occasionally produces profound effects on markets and consume behavior. Indeed, time has not stood still since this docket commenced in 1997, and therefore, universal service, if viewed in a vacuum, is likely to produce wrong answers to right-minded questions.

Today, given the confluence of technology, markets, and federal regulatory policy the retail price structure of telecommunications service has been fundamentally and irreversibly altered. The price for all telecommunications services are being pushed to the cost of the underlying facilities used to provide those services. Consequently, distance has almost ceased to be a function of the cost of usage. Consistent with this reality, consumers are demanding – and carriers are responding with -- all-distance calling. Moreover, the all-distance phenomenon, once the purview of niche markets in the U.S., is expanding because of: (a) formidable competition from the wireless sector;<sup>2</sup> (b) Regional Bell Operating Company ("RBOC") reentry into the in-region interLATA toll market; (c) significant interstate access reform; and (d) the emergence and growing popularity of Voice over the Internet protocol ("VoIP").

As a result, traditional distinctions between local and toll services are swiftly being relegated to the dustbin of history. For newer generations of consumers, the local /

When this docket opened the wireless sector had captured a mere 5% of the total industry revenue and minutes, by year end 2002, 30% of the revenue and minute and project to be at 50% in the near future. As of year-end 2004, it had risen to an astounding 35% of the revenue and minutes. See, for example, In the Matter of Implementation of Section 6002(b) of the Omnibus Budget Reconciliation Act of 1993. Annual Report and Analysis of Competitive Market Conditions With Respect to Commercial Mobile Services, WT Docket No. 02-379. Eighth Report, rel. July 14, 2003, ¶ 102; "Consumer Wireline Erosion: The strategic response to 'water torture'". Deutsche Bank 19 May 2005, p. 7.

toll distinction has *never* existed. <sup>3</sup> That said, the purpose of universal service is to ensure access to affordable basic local exchange service at rates that are reasonably comparable between urban and rural areas. Thus, the initial question that should drive the evaluation of the current (and future) AUSF is: *Have the goals of universal service largely been met in Arizona?* The answer to this question requires the collection of relevant data for several industry sectors and reasoned analyses. <sup>4</sup>

To begin, in the U.S. currently, universal service, or access to basic local exchange service, is a measure of household penetration rates. Table 1 below, compares the household penetration rates for Arizona for the twenty-year period 1984-2004 with the national average household penetration rates.

Table 1

Comparison of Household Penetration Rates
(1984-2004)

Date	1984	2004
Arizona	86.9%	91.8%
National	91.6%	93.8%

Source: Telephone Subscribership in the United States (Data through November 2004). Industry Analysis and Technology Division Wireline Competition Bureau Federal Communications Commission. rel. March, 2005.

<sup>3</sup> Among others, implications for the AUSF are that the revenue funding base cannot continue to rely on the local/toll distinction (R14-2-1204) nor should so-called 'underserved" and / or unserved areas be presumed the sole purview of wireline communications providers (ALECA proposed rule R14-2-1202B).

A recently concluded comprehensive program evaluation entitled "A Review of the South Carolina Universal Fund" conducted by the Legislative Audit Committee is instructive for Staff and the ACC and has been provided with this filing with this document. Significantly, this Report to the General Assembly concludes that (a) the goals of universal service have been largely met; (b) the FUSF mechanisms are sufficient; (c) the fund is infirmed because it focuses on revenue replacement rather than support for basic service; and (d) it is not an appropriate long term policy to strongly regulate and subsidize one part of the market i.e. landline when an increasing part of the market is unregulated and unsubsidized by the state. "Synoposis," p.v.

The data show that Arizona's household penetration rate lags the national average penetration rate by 2%. To conclude that this data point, alone, proves the need for a state funding mechanism, however, would be premature. Moreover, the 2003 version of this same report indicates a household penetration nationally *and* in Arizona of 95.1%. The entire variance between 2003 and 2004 is explained by a change in the study's methodology to neutralize the inadvertent inclusion of wireless. Nonetheless, a household penetration rate in excess of 90% suggests that the retail rates for basic local exchange service are generally affordable in Arizona today.

Next, and because wireless substitution is significant (e.g., 35% of total industry minutes of use and revenue), wireless penetration, although not the official measure of universal service today, is clearly a force with which to be reckoned – globally, nationally, and in Arizona.<sup>6</sup> That is, there are nine countries in the world today with wireless penetration rates that exceed 100% and another eight countries with penetration rates that range from 90-99%.<sup>7</sup> The penetration rate in the United State is 61% and that for Arizona is 55%.<sup>8</sup> Wireless penetration coupled with the hemorrhaging of wireline minutes of use, which translates to revenue loss for wireline carriers, likewise, has implications for the future design of the AUSF.

Pages 2 and 3 of the FCC's Telephone Subscribership report describe the changing nature of the survey questions and how those changes have effected the results. For the upcoming 2005 report, the survey question has been revised to ask whether the household has telephone service, including cell phones.
 Wireless penetration is measured in "POPS" or population.

<sup>&</sup>lt;sup>7</sup> Global Wireless Matrix 4Q04. Global Securities Research & Economics Group, Merrill Lynch. 13 April, 2005, Chart 11. U.K, Norway, Greece, Czechoslovakia, Israel, Hong Kong, Portugal, Sweden and Italy exceed 100%. Singapore, Denmark, Finland, Taiwan, Ireland, Spain, The Netherlands, and Austria range from 90%-100%.

According to the US Census Department, the estimated 2003 population of Arizona is approximately 5.58M. The number of wireless subscribers as of June 2004 was 3.07M (up 16% from 6/03), thus the wireless penetration rate (3.07M/5.58M) is 55%. Wireless subscribership by state reported in *Local Competition: Status as of June 30, 2004*. Industry Analysis and Technology Division Wireline Competition Bureau, Federal Communications Commission. December 2004. Table 13.

Finally, the nature of the ILEC community itself has been transformed in Arizona. And, while the Commission may not regulate rates and market entry *per se* for all of the services that each carrier provides, it does have broad authority over public welfare. The public interest is not served when a dollar is taken from one Arizona customer and given to another unnecessarily. To begin to understand the breadth and depth of the financial health of all of Arizona ILECS, AT&T has constructed a matrix of service offerings and holding company relationships and it is attached to this document. In sum, Arizona's ILECs have multiple sources of revenue and are expanding in different directions simultaneously. Table 2 below, summarizes the multiplicity of revenue sources for those ILECs.

Table 2
Summary of Expanded Service Offerings of Incumbent LECS and Affiliates

Service	% LEC Offering	
Long Distance (Affiliate)	73%	
DSL/Internet	73%	
Cable/Satellite	67%	
Wireless (Affiliate)	53%	
Source: AZ ILEC Matrix (attached)		

II. Replacing One Flawed Subsidy Mechanism with Another Equally Flawed Mechanism Cannot Advance the Goals of Universal Service.

ALECA correctly observes that the Federal USF experienced growth that may effect its sustainability. But, "sustainability" at the current level of federal subsidy for the rural carriers should not be confused with no (i.e., \$0.00) subsidy nor does ALEC's inference reveal anything about the appropriateness of the current levels of subsidy.

<sup>&</sup>lt;sup>9</sup> ALECA Proposal, p. 4.

Arguably, the current level of funding is excessive. Furthermore, ALECA did not provide the Commission with the three most important variables that are contributing to the growth of the federal high cost mechanisms. Simply stated they are:

- 1. A declining revenue funding base;
- 2. Growth in number of supported wireless lines; and last but not least,
- 3. ILEC support mechanisms based on the institutionalization of inefficiencies inherent in ROR and hold harmless provisions.

All three require attention by the Federal Communications Commission ("FCC"), but the third, institutionalization of ILEC inefficiencies is particularly relevant here because ALECA's proposal potentially transfers these inefficiencies into a revised AUSF. <sup>10</sup>

Since its inception, the high cost support mechanism, unlike to the low-income assistance programs, remains largely unfocused and ill-targeted. That is, the Life Line and Link-UP programs are targeted to specific households at risk of dropping off the network and thus exhibit a demonstrable need for support. The high cost mechanisms, on the other hand, have been used to reimburse carriers for costs higher than national cost averages. As a result, the growth in the untargeted carrier-centric subsidy has been and continues to be exponentially higher than that for the targeted customer or household-centric subsidy mechanism. 12

<sup>12</sup> *Ibid*, p. 8.

A particularly insightful research study about this issue is attached to these comments. See, Lost In Translation: How Rate of Return Regulation Transformed the Universal Service Fund for Consumers into Corporate Welfare for the RLECs. Economics and Technology Inc., February 2004.

See, for example, Eriksson, Ross C., David L. Kasserman, and John W. Mayo. "Targeted and Untargeted Subsidy Schemes: Evidence from Post-Divestiture Efforts to Promote Universal Telephone Service." *Journal of Law and Economics.* V 41 n 2, October 1, 1998.

And, in Arizona specifically, before the implementation of rural carrier "reform," Arizona rural LECs received \$ 22 million in Federal high cost support. Post-reform in 2005, these same carriers are projected to receive approximately \$ 65.8 million in high cost support. Adding in the non-rural carriers the State will receive approximately \$ 81 million in Federal high cost support. This represents an enormous amount of unfocused, ill-targeted government subsidy that, as noted above, essentially takes away from one Arizona consumer and gives to another.

III. The Commission Should Revise its Rules to Ensure that the Subsidy is "Sufficient" without Undue Growth That Ultimately Harms Arizona Consumers and Carriers Alike.

Going forward, the Commission should contemplate devising rules designed to avoid the pitfalls that have bedeviled Federal high cost support mechanisms and will ultimately lead to their demise. In particular, the Commission should focus its rules such that they are more targeted to rural, insular, and high cost areas. Toward that end, the Commission should consider the following actions: (a) limiting universal service support to a single connection to a household or a business, (b) capping per line support upon competitive entry, and (c) carefully scrutinizing whether additional ETC designations in ICO study areas are indeed in the public interest. At a minimum, AT&T believes reevaluating the AUSF rules, with these proposals in mind will lead to an efficient, sustainable AUSF that treats all customers in Arizona fairly.

<sup>14</sup> "High Cost Support Projected by State First Quarter 2005." Universal Service Administrative Company. Appendix HC02, p 1 of 1.

<sup>&</sup>lt;sup>13</sup> "Study Area Detail For All Exchange Carriers." National Exchange Carrier Association, Inc. 9/21/2000 for year end 1999. p. 2 & 3. Note: for 1999 neither then US WEST nor then Contel California received any federal high cost support because under the prevailing rules they were not high cost carriers.

# **CONCLUSION**

To conclude that it is imperative that the AUSF be revised to mirror the Federal USF is to inject into the AUSF all the flaws that will ultimately collapse leaving some rural Arizonans without access to affordable telecommunications services. In short, ALECA asks the Commission to place the cart before horse, results before data, emotion The challenge for the Commission is to move Arizona in a new before experience. direction. That is, this inquiry—as described in AT&T's Comments—should precede and inform the development or alteration of rules.

Respectfully submitted this 30<sup>th</sup> day of June, 2005.

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# **ARIZONA LEC MATRIX**

http://www.arizonatele.com/providers.html

Comments	Qwest provides voice, internet, data and video solution to residential, business and government customers nationally.
Cable/Satellite	Owest Choice Owest pro TV, Owest internet, de Choice online, solution to Direct TV business a Satellite governmen television service nationally.
Internet/DSL	Dial up, DSL and Qwest Choice wireless internet TV, Qwest services Choice online, Direct TV Satellite television service
CLEC Affiliate	Owest Dial up, DSL and Owest Cho Communications wireless internet TV, Qwest Corporation services Choice onli Direct TV Satellite television s
Wireless Affiliate CLEC Affiliate	Reseller of Sprint wireless
LD Affiliate	Qwest LD Corp.   F
COMPANY NAME	Owest Corporation
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						internet service to
						several rural
						communities in Idaho
						Oregon, Arizona and
						Washington. Partner in
*				-		Syringa Network, a fiber
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						independent telephone
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20						

South Central Utah	Telephone Association	serves more than	18,000 customers and	posts revenues in	excess of \$1 million	each month. Its	nonregulted subsidiary,	South Central	Communications	provides internet	service, digital wireless	service, long distance	and cable TV.		Table Top Telephone	Company is a rural	telecommunications	company that offers	business and residential	services in Aguila, Ajo,	Why, Lukeville, Bagdad,	Sanders, Houck, Lupton	and Seligman.		
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5 Independent ICOs	က	-				
15 TOTAL	73%	23%	23%	73%	%29	

# **LOST IN TRANSLATION:**

How Rate of Return Regulation Transformed the **Universal Service Fund for Consumers into Corporate Welfare for the RLECs** 

February 2004

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# **Preface**

# **LOST IN TRANSLATION:**

How Rate of Return Regulation Transformed the Universal Service Fund for Consumers into Corporate Welfare for the RLECs

The most recent projections for the FCC's "high cost" universal service funding ("USF") system reveal projected demand for 2004 of \$3.6-billion – almost \$2-billion more than the \$1.7-billion disbursed in 1999. The vast majority of the support (in excess of \$2.5-billion) will be paid to Rural incumbent LECs. The primary mission of USF is to ensure that the rates for basic telephone service in the rural regions of the U.S. will continue to be affordable by keeping them "reasonably comparable" to the rates prevailing in lower-cost areas of the country. While the intent is clearly to promote the welfare of telephone service *subscribers*, the program's funds are disbursed to the *carriers* providing service in the rural high-cost service territories.

Most of the Rural ILECs have been operating under traditional rate base, rate of return regulation for decades. It is generally accepted by economists and regulators that a firm regulated under an ROR framework faces incentives to increase and/or overstate its costs, and is discouraged from operating efficiently. Because the high-cost USF system is also based on these regulatory accounts, to the extent that the Rural ILECs are operating inefficiently and/or inflating their costs, the high-cost payments will be unnecessarily high.

It is in this context, Economics and Technology, Inc. was asked by Western Wireless to review the effects that rate of return regulation and the federal high cost fund mechanisms have had upon the Rural ILECs, and the implications of those findings for the size of the federal universal service High Cost Fund. ETI's study demonstrates that rate of return regulation has induced inefficiencies into the RLECs operations, and that the federal HCF mechanism has become a form of *corporate welfare* assuring the continuation of those inefficiencies. This report was prepared under the overall direction of Susan M. Gately, Senior Vice President, and Scott C. Lundquist, Vice President. Contributing to the report were Elizabeth P. Tuff and Colin B. Weir, respectively Senior Consultant and Analyst at ETI. The views expressed in this study are those of ETI, and do not necessarily reflect the views of Western Wireless.

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Executive
Summary

How Rate of Return Regulation
Transformed the Universal Service
Fund for Consumers into Corporate
Welfare for the RLECs

The primary mission of the FCC's "high cost" universal service funding ("USF") system is to ensure that the rates for basic telephone service in the relatively high-cost, rural regions of the U.S. will continue to be affordable by keeping them "reasonably comparable" to the rates prevailing in lower-cost areas of the country. While the intent is clearly to promote the welfare of telephone service subscribers, the program's funds are disbursed to the carriers providing service in the rural high-cost service territories. In 2003, some \$3.3-billion in high-cost USF support was channeled to local exchange carriers ("LECs"), the vast majority of which was paid to Rural incumbent LECs ("ILECs").

The Rural ILECs encompass approximately 1400 separate operating units, including several hundred small, privately held companies as well as the units owned by a few holding companies such as CenturyTel and TDS. Most of the Rural ILECs have been operating under traditional rate base, rate of return regulation ("RORR") for decades. It is generally accepted by economists and regulators who have examined the issue that a firm regulated under an RORR framework faces incentives to increase and/or overstate its costs, and is discouraged from operating efficiently. Because the high-cost USF system is also based on the regulatory accounts of companies under RORR, to the extent that the Rural ILECs are operating inefficiently and/or inflating their costs, the high-cost payments will be unnecessarily high.

In that case, funds that are collected from other industry participants and paid into the high-cost USF system will become "lost in translation:" that is, instead of helping to keep rural telephone rates more affordable and thus benefitting rural consumers, those funds will become diverted to subsidizing the Rural ILECs and thereby institutionalizing their inefficiencies. This Report addresses that prospect, by examining the operating performance of the Rural ILECs and its linkages to both the RORR framework and the cost-based nature of the federal high-cost USF system.



Our overall conclusion is that Rural ILEC inefficiencies are substantial and are draining away enormous amounts of the federal high-cost funds. Thus, the high-cost USF mechanism has devolved from a system designed to ensure affordable rates for consumers to something closer to corporate welfare for the Rural ILECs. Our principal findings in support of this conclusion are as follows:

- We have calculated conservative "best-in-class" benchmarks for Rural ILECs' Corporate Operations expense, using year 2002 data from NECA that spans 90% of the loops supplied by Rural ILECs under rate-of-return regulation. We assumed that the "best-in-class" are the top-performing 25 percent within their size-based group. The total amount of claimed expense above the benchmark level provides a reasonable indication of the degree of inefficiency prevailing in the Rural ILECs' corporate overheads. Out of a total Corporate Operations expense of \$1.655-billion, some \$545.0-million, or 32.9%, are expenses beyond the benchmark level estimated by the trend line. Thus about one-third of the Rural ILECs' claimed Corporate Operations expenses are being incurred in an inefficient manner. Expressed another way, the Rural ILECs are reporting total corporate overhead expenses that are inflated by nearly fifty percent above the presumably efficient level of \$1.11-billion in aggregate.
- The FCC's High Cost Loop ("HCL") support mechanism attempts to limit the impact of inflated Corporate Operations expenses claimed by Rural ILECs, but the expense cap adopted by the FCC is not very effective. The FCC cap excludes only 23% of the corporate overhead costs that exceed the efficient level determined by our benchmarking. Consequently, the FCC cap allows the lion's share, some 77%, of those inefficiently-incurred expenses to enter into the HCL support calculations. While we have not attempted to precisely quantify the impact of those inefficiencies on the HCL payments, it is clear that they will have a significant impact.
- An examination of more detailed operating data for 140 Rural ILECs operating in Ohio, Texas, and Wisconsin confirms that many Rural ILECs are claiming excessively high levels of corporate overheads that may be attributed to inefficiency, waste, or even outright fraud. A review of workforce data for the Texas carriers provides further corroboration by identifying certain Rural ILECs with unusually high numbers of management and executive personnel. A conservative analysis demonstrates that adjusting those corporate overheads to more efficient levels would put many Rural ILECs into an overearnings condition (e.g., in the 20% range for return on rate base). Absent more aggressive exercise of RORR regulation which regulators have been unable or unwilling to pursue these inefficiencies are flowing into the federal USF system and resulting in inflated support payments.
- The cost-based nature of the high-cost USF system creates strong disincentives that deter Rural ILECs from consolidating to obtain larger scale operations and thereby reduce their costs. Instead of encouraging efficient consolidations, the funding mechanism skews the disbursement of universal service support disproportionately to the smallest Rural ILECs. Considered in aggregate, Rural ILECs sized between zero and 50,000 lines receive over 75% of the HCL



support payouts, while serving half of the loops. When Local Switching Support ("LSS") funds are factored in, the average per-loop annual payment to the under 50,000 line carriers for LSS and HCL combined is \$240 – more than four times greater than the support being paid to carriers sized between 100,000 and 350,000 lines.

• The incentives to inefficiencies inherent within rate of return regulation are compounded by the unwillingness or inability of regulators to scrutinize the RLECs' accounts to the degree necessary to prevent substantial errors or misstatements. A unique brand of rate of return regulation is being applied to RLECs — one with minimal financial reporting and almost no actual regulatory oversight. The lack of oversight encourages and rewards operational inefficiencies in the rural ILECs themselves, and is also an inefficient and ineffective regulatory device for regulators. Federal regulators do not regularly review RLEC earnings, and in those limited cases where it is possible to review RLEC earnings, those reported earnings raise questions of their own. RLEC earnings results reported to the FCC for 2002 range from -13.3% to +23.6%. State regulators, who in some cases have in excess of 25, 50, or more than 100 RLEC study areas within their jurisdictions, have little incentive, and frequently insufficient resources to maintain the necessary level of regulatory oversights.

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# 1 INTRODUCTION

In all, there are about 1400 local telephone companies in the United States. About 92% of the nation's 160-million phone lines are served by the four regional Bell companies (RBOCs). The remaining 8% – roughly 12.8-million lines – are split up among some 1400 separate operating units. Many of these are owned by a few holding companies – Sprint, Frontier, Citizens, CenturyTel, and TDS – while the rest are independent, privately held companies.

Rural incumbent local exchange carriers (RLECs) confront operating conditions that result in cost levels that are generally well in excess of those being experienced by the Bells. There are three principal sources of this cost disparity: First, RLECs serve communities characterized by extremely low population density. The average distance between the RLEC's central office and its subscribers is typically much greater than for urban areas, and the number of customers available to share the costs of these long distribution cable runs is typically fairly small. Second, the individual operating companies themselves are relatively small, ranging from as little as a hundred lines to perhaps a hundred thousand lines, whereas individual Bell company operating units, such as SBC's Pacific Bell or Verizon's New York company may serve upwards of ten million subscribers. Because these small rural telcos have remained so small despite the significant consolidation that has occurred throughout the rest of the US telecommunications industry many of them do not have access to the enormous economies of scale that the RBOCs routinely enjoy, their per-customer cost is necessarily elevated.

While these sources of increased costs may be an inescapable consequence of the low density and small operating scale characteristics of many RLECs,<sup>1</sup> the third source of high RLEC cost can be traced directly and inexorably to fundamental defects in the manner in which these firms are regulated. Rather than encourage RLECs to pursue productivity growth and improved operating

<sup>1.</sup> The ability of many of the RLECs to operate at a very small scale that may be sub-optimal is, as discussed further in the report, one of the inefficient consequences of an RORR-based system.



efficiency, the processes of state and federal regulation work to reward inefficient conduct and in so doing deny rural telephone consumers many of the efficiency gains and service improvements that their urban counterparts have come to expect. The costs of these regulatory shortcomings are not confined to rural areas because, through the so-called "Universal Service" funding mechanism (USF), the effects of these inefficiencies are being systematically shifted to wireline and wireless telephone service consumers throughout the rest of the country. The Universal Service funding mechanism has evolved from a system designed to ensure affordable rates for consumers to something closer to corporate welfare for the RLECs.

Although the USF high cost funding mechanism channeled some \$3-billion in subsidy support to carriers in 2003, it is not our purpose here to question the concept of Universal Service *per se*. Universal connectivity to the nation's telephone network benefits all subscribers, urban and rural. Without a national high-cost support mechanism, local phone service in certain rural areas might be unaffordable by many households. However, there is no valid public policy basis for a high-cost support mechanism that subsidizes and thereby encourages inefficiency.

# Institutionalized inefficiency

Rural telcos are nominally regulated under a system known generally as "rate of return regulation" (RORR). Under RORR, the regulated firm is entitled to be reimbursed (through rates or support payments) for all ongoing operating costs together with the right to recovery of its investments in plant and equipment and a "reasonable return" thereon. Often referred to as "cost-plus" regulation, RORR has been said to reward inefficiency while penalizing firms for engaging in cost reduction efforts. Universal service funding for all ILECs had as its basis, the same embedded cost accounting used for RORR. As we discuss further on, it is possible that these system-induced inefficiencies have resulted in the USF-funding requirements being bloated by as much as \$1-Billion.

The fact that RORR, based upon "embedded" accounting costs as recorded on the utility's books, results in inefficient operations has been well documented by economists of every stripe in regulatory proceedings involving virtually every regulated utility industry over the last twenty years.<sup>2</sup> The FCC itself has reached that conclusion when it acted to replace rate of return-based regulation with a price cap form of regulation, initially for AT&T,<sup>3</sup> and about a year later for the

<sup>3.</sup> Policy and Rules Concerning Rates for Dominant Carriers, CC Docket No. 87-313, Report and Order and Second Further Notice, FCC 89-91, 4 FCC Red 2873 (1989).



<sup>2.</sup> See, eg., Harvey Averch and Leland L. Johnson, Behavior of the Firm Under Regulatory Constraint, The American Economic Review, Vol. 52, No. 5, December 1962, 1052-1069; Harvey Leibenstein, Allocative Efficiency vs. "X-Efficiency," The American Economic Review, Vol. 56, No. 3, June 1966, 392-415; and Alfred E. Kahn, The Economics of Regulation: Principles and Institutions, Volume II, John Wiley and Sons, 1970, chapter 2.

Tier 1 incumbent local exchange carriers (ILECs).<sup>4</sup> When universal service high cost funding is also based on the regulatory accounts of companies under RORR, the inefficiencies in operations and investments born of these perverse regulatory incentives become the foundation for a bloated universal service fund.

In 1997, the Commission replaced the then-existing embedded cost basis for the Tier 1 ILEC Universal Service high cost funding mechanism with a new system tied to forward-looking costs.<sup>5</sup> Among other things, the Commission recognized that a system that paid high-cost support based on embedded costs would interfere with the development of competition.<sup>6</sup> However, as to the regulation of *Rural ILECs*, while acknowledging the problems inherent in rate of return regulation on numerous occasions, the FCC has repeatedly, in proceeding after proceeding, avoided confronting those problems. Rather, federal regulators have, through ever-growing Universal Service High Cost Fund (HCF) payments to the Rural ILECs, effectively *institutionalized* the inefficiencies inherent in rate of return regulation.

The incentives to inefficiencies inherent within rate of return regulation are compounded by the unwillingness or inability of regulators to scrutinize the RLECs' accounts to the degree necessary to prevent substantial errors or misstatements. When the Bell companies were subject to RORR, they were required to provide federal and state regulators with highly detailed financial reports and accounting data. Applications for rate increases were typically subject to intense regulatory scrutiny, and certain expenses and investment costs might be "disallowed" if their appropriateness or reasonableness could be not adequately justified. Ironically, while most RLECs continue to be subject to RORR, they are generally *not* subject to anywhere near the same level of financial reporting requirements as had applied to the large ILECs in the past. In the interstate jurisdiction, only the largest of the Rural ILECs are even required to file data directly with the FCC – of the approximately 1,400 RORR RLECs operating across the country, only 47 of them file FCC Form 492 rate of return reports with the Commission. The remaining 97% of the RORR Rural ILECs file their interstate "cost" data with their own industry association – the National Exchange Carrier Association (NECA) – a body managed entirely by and on behalf of the Rural ILECs. NECA compiles the cost data and files with the Commission, but does not provide the necessary revenue

<sup>7.</sup> Industry Analysis Division, Federal Communications Commission, *Interstate Rates of Return for Local Exchange Carriers*, December 2002.



<sup>4.</sup> Policy and Rules Concerning Rates for Dominant Carriers, CC Docket No. 87-313, Second Report and Order, FCC 90-314, 5 FCC Rcd 6786 (1990).

<sup>5.</sup> In the Matter of Federal-State Joint Board on Universal Service, CC Docket No. 96-45, Report and Order, FCC 97-157, 12 FCC Rcd 8776 ("Universal Service Report and Order").

<sup>6.</sup> Id. 12 FCC Rcd 8776, at 8900-8901, paras. 227-229.

data to the Commission to allow it to determine the earnings levels of the individual RORR RLECS.<sup>8</sup>

Thus, interstate access services of the Rural ILECs continue to be nominally regulated by the FCC on a rate of return basis, but in practice hardly at all. Following the FCC's lead, most state regulators also continue to nominally utilize RORR for RLECs, even where an alternative regulatory mechanism has been adopted for the larger ILECs in the state. In reality – and compounding the problem – even this form of "regulation" of these small carriers in many cases applies in name only, with no operative "regulation" or even substantive regulatory oversight actually taking place.

# Rate of Return Regulation of the 1400 RLECs results in an unduly burdensome system.

The FCC appears to be relying upon state regulators to police the overall operations of the RLECs to which it is funneling approximately \$3-billion per year. In many of the states in which rural carriers are most prevalent, the sheer number of carriers makes it difficult for understaffed state regulators to be able to review carrier operations with anything approaching an eagle eye. For example, the Iowa Utilities Board oversees 152 rural ILECs in addition to the single large carrier operating in its territory – Qwest. The PUC of Texas (PUC-T) has jurisdiction over 55 rural ILECs and two larger carriers (SBC, GTE/Verizon). The story told by these numbers is repeated in jurisdictions across the country: Wisconsin has 88 rural ILECs and two non-rural ILECs (SBC-Ameritech, Verizon); Mississippi has 18 rural ILECs and one non-rural ILEC (BellSouth). Moreover, looked at from the state regulators' perspective, as long as the rural ILECs are providing adequate service and are not seeking rate increases on their intrastate services, there is little reason to interfere with or investigate those carrier's operations.

The unique brand of rate of return regulation being applied to rural ILECs – with minimal financial reporting and almost no actual regulatory oversight – not only encourages and rewards operational inefficiencies in the rural ILECs themselves, but is also an inefficient and ineffective regulatory device for regulators as well. To work properly, RORR requires detailed review of cost and operational data, pricing structures, investment and depreciation levels, and myriad other issues. All other concerns with RORR aside, it is simply not a practical method for the regulation of close to 1400 separate corporate entities by a single federal agency. It is impossible to look at the present USF funding mechanism, and the tremendous growth in the level of funds flowing out of the pockets of US consumers and into the coffers of rural telcos, without seeing that the present system is broken.

<sup>8.</sup> Based upon a review of the NECA data reported on the FCC Industry Analysis Division's website. *See*, Industry Analysis Division, Federal Communication Commission, NECA and USAC Data, available at <a href="http://www.fcc.gov/wcb/iatd/neca.html">http://www.fcc.gov/wcb/iatd/neca.html</a>, (accessed January 10, 2004).



# Under Rate of Return Regulation, RLECs have many opportunities for abuse.

A review of the record clearly demonstrates that there is ample *opportunity* for abuse in the system as it is structured today. The following examples, which involved ILECs operating under RORR, are provided for the purpose of illustrating the type of conduct that has been uncovered in the past. These cases were uncovered as a result of the kind of detailed cost review that the FCC had historically undertaken of the largest of the carriers regulated under RORR.

- Affiliate Transactions: Transactions between affiliates create opportunities for improper shifting of costs and revenues. When one division of a firm is regulated and is guaranteed to recover its costs and another is not, there is a strong incentive to record costs in the regulated entity and revenues in an unregulated affiliate. As an example of this practice, the FCC found in the late 1980s that NYNEX was paying grossly inflated prices for standard office products purchased from an affiliate NYNEX Materiel Enterprises (MECo) -- set up expressly for this purpose. 10
- Inaccurate regulatory accounting records: In February 1999, the Federal Communications Commission released staff audits of the Regional Bell Operating Companies' Continuing Property Records (CPRs) as these existed on June 30, 1997. The audits revealed a pattern of systematic overstatement of capital investments on the RBOCs' books relative to assets

<sup>11.</sup> Federal Communications Commission, FCC Releases Audit Reports on RBOCs' Property Records, Report No. CC 99-3, Common Carrier Action, February 25, 1999. See also, Audit of The Continuing Property Records of Ameritech Corporation, as of July 30, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("Ameritech CPR Audit"); Audit of The Continuing Property Records of NYNEX Telephone Operating Companies also known as Bell Atlantic North, as of March 31, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("Bell Atlantic North CPR Audit"); Audit of The Continuing Property Records of Bell Atlantic Telephone Operating Companies, also known as Bell Atlantic South, as of March 31, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("Bell Atlantic South CPR Audit"); Audit of The Continuing Property Records of BellSouth Telecommunications, Inc., as of July 31,1997, FCC Accounting Safeguards Division, December 22, 1998 ("BellSouth CPR Audit"); Audit of The Continuing Property Records of Pacific Bell and Nevada Bell Telephone Companies, as of June 30, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("Pacific Bell CPR Audit"); Audit of The Continuing Property Records of Southwestern Bell Telephone Company as of June 30, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("US West Telephone Operating Companies, as of June 30, 1997, FCC Accounting Safeguards Division, December 22, 1998 ("US West CPR Audit"); Sections VI. Collectively, the seven RBOC CPR audits ("The RBOC CPR Audits").



<sup>9.</sup> While both examples involved RBOCs, in both cases the primary abuse occurred while the RBOC was operating under RORR although in one case the abuse was not uncovered until a later date.

<sup>10.</sup> See, e.g., In the Matter of New York Telephone Co.; New England Telephone and Telegraph Co., Apparent Violations of the Commission's Rules and Policies Governing Transactions with Affiliates, Order, FCC 90-328, 5 FCC Rcd 5892 (1990), and Proceeding on Motion of the Commission to Investigate Transactions Among New York Telephone Company and its Affiliates, New York PUC Case No 90-C-0912; Proceeding on Motion of the Commission to Investigate the Directory Publishing Operations of New York Telephone Company and its NYNEX Affiliates, New York PUC Case 92-C-0272, Opinion 97-9, June 5, 1997.

physically present in their networks. To the extent that existing BOC rate levels – in both the state and federal jurisdictions – are linked, directly or indirectly, to the net book value of plant in service, an overstatement of such book value would necessarily result in excessive prices for BOC services. In conducting the BOC CPR audits, the Commission unearthed a staggering history of BOC overstatement of capital investment, translating into the estimate of \$5-billion worth of "missing" assets that could not be located either by the auditors or by the BOCs' own plant technicians. One out of every five line items of hard-wired central office equipment (i.e., slightly over 20%) that FCC auditors had attempted to verify could not be located. 12 The regulatory implications of overstated plant accounts, especially an overstatement of the magnitude of 20%, are substantial. Whatever the cause of the missing investment on the RBOCs' books - whether it was phantom (never existed), simply misplaced (no longer being used), or the result of sloppy bookkeeping – the effect is that the plant was nowhere to be found. Such overstatements, should they be occurring on the books of the RLECs, would necessarily inflate these companies' cost of service and consequently their "high-cost" requirements. As a result, US consumers in all states are being tapped for the dollars to fund "costs" that are not serving any actual universal service needs.

# USF subsidies represent a substantial share of overall revenues for some RLECs.

Responding to the perverse incentives described above, RLECs have become increasingly dependent on universal service support as a form of corporate welfare. Disbursements from the fund have become an increasingly large – sometimes even predominant – share of the RLECs total revenues. In many cases the revenues being generated by the telephone services sold to the RLECs' subscribers are dwarfed by the revenues received by these carriers in the form of USF subsidies. This is particularly true in states in which federal universal service funds are supplemented by state program funds. Table 1 below presents the results of an analysis of the composition of the revenue stream of ten RLECs in Texas as reported in Earnings Report made to the Texas PUC. For all but one of these companies, USF revenues accounted for more than half of the total operating revenues; for seven out of the ten, USF accounted for two-thirds or more of the total revenues. The proportion of total revenues generated by state-regulated end user and intrastate access charges represents less than a third and in one cases only 5% of the RLEC's total income. The relatively small proportion of total revenues that falls under the state regulators' purview puts the responsibility for overseeing the operations of these RLEC entities squarely within the FCC realm of responsibility.

<sup>12.</sup> See Ameritech CPR Audit, at para. 19; Bell Atlantic North CPR Audit, at para. 19; Bell Atlantic South CPR Audit, at para. 18; BellSouth CPR Audit, at para. 18; Pacific Bell CPR Audit, at para. 19; SWBT CPR Audit, at para. 19; and US West CPR Audit, at para. 19.



Table 1.1

USF Support and Revenues Breakdown of Selected Texas LECs

			Intrastate End
	Federal USF	TX State USF	User Service
Carrier	Support	Support	And Access
Electra Telephone Co	52.8%	22.9%	16.7%
Big Bend Tel Company	24.1%	14.2%	19.1%
Coleman Cty Tel Coop	47.6%	13.9%	29.2%
Border to Border	48.5%	19.1%	5.0%
Lake Livingston telco	53.6%	21.4%	15.2%
Tatum Tel Exch	41.9%	34.3%	17.9%
Dell Telephone Coop	49.9%	9.4%	10.3%
XIT	55.7%	19.2%	16.7%
Valley Tel Coop	39.4%	26.2%	14.0%
Alenco	44.3%	29.6%	14.6%

Sources: Rural IIECs, 2002 Earnings Reports to the Texas PUC, Year Ending December 31, 2003; Industry Analysis Division, Federal Communications Commission, *Federal-State Joint Board Monitoring Report*, December 2003, Table 3.30 (data as of 2002).

# Rate of Return Regulation of RLECs has resulted in increasing USF disbursements during a time when costs have been declining.

Rural carriers receive high cost compensation from the FCC's High Cost Fund through a variety of mechanisms.<sup>13</sup> The underlying financial records and operations of the RLECs drawing from the funds, and the investments and expenses being measured and recovered by the various funding mechanisms, are subject to rate of return regulation. Projections for the second quarter of 2004 put total federal High Cost Fund program demand (expressed on an annual basis) at \$3.6-billion. Of that \$3.6-billion, 77% (\$2.7-billion) goes to Rural ILECs through five different mechanisms. Total annual High Cost Fund support flowing to the RLECs has grown beyond any expectations at the time the fund mechanisms were established. In 1986, total High Cost Fund disbursements amounted to about \$55-million. Less than twenty years later (during which time the telecom industry generally experienced significant productivity improvements) projections for 2004 call for disbursements of \$3.6-billion.

<sup>13.</sup> The federal High Cost Fund components that apply to Rural ILECs are: High Cost Loop (HCL), Long Term Support (LTS), Local Switching Support (LSS), Interstate Common Line Support (ICLS) or Safety Value (SV).



#### Introduction

The RLECs attempt to shift responsibility for this growth away from themselves. They have claimed that the larger fund size is caused by Competitive Eligible Telecommunications Carriers (CETCs) drawing from the fund. <sup>14</sup> However, the CETC draw is minuscule relative to the total size of the fund: in 2003 USAC projected that CETCs would draw, on an annual basis, approximately \$250 million of the projected \$3.4-Billion High Cost Fund. However, more than half of the draw projected for CETCs (\$130-Million) was projected for CETCs that had not been deemed eligible. such that the actual funding to CETCs based upon those projections would have been closer to \$120million of the more than \$3-Billion funding requirement. <sup>15</sup> Some have argued that the fund has not really grown, but has simply expanded as costs that were *implicitly* recovered through revenues generated by access services have been identified and moved out of access services and are now explicitly recovered through the High Cost Fund. 16 Certainly, the FCC has instituted changes that shifted cost recovery from RLEC interstate access charges to the USF High Cost Fund (the LTR, LSS and ICES mechanisms). However, there is a huge gap between the costs that were transferred and the amount of revenue presently being recovered through the USF High Cost Fund. Table 1.2 below documents the first full reporting year that the revenue transfer mechanism was in place, the amount of revenue recovered from the USF High Cost Fund during that first full year, and the projected disbursement requirement associated with that mechanism for 2004. As the table demonstrates, the total revenue requirement transferred from interstate access to the USF fund by the FCC equaled \$919-million, yet 2004 disbursements from those mechanisms will be more than 50% greater – \$1.49-billion. The only compelling explanation for the unstoppable growth in the High Cost Funding requirement is that the fundamental underpinning of the system – rate of return regulation - is flawed.

<sup>16.</sup> See, for example, Oklahoma Rural Telephone Companies Comments, at 5.



<sup>14.</sup> Most recently, RLECs have been pointing to CETC's as the cause of growth in the fund (See, *In the Matter of Western Wireless Petition for Rulemaking to Eliminate Rate-of-Return Regulation of Incumbent Local Exchange Carriers*, RM-10822; *Federal-State Joint Board on Universal Service*, CC Docket No. 96-45, Comments of Oklahoma Rural Telephone Companies, January 16, 2004 ("Oklahoma Rural Telephone Companies Comments"), at 5.)— nothing could be further from the truth. Over the last decade(1993 - 2003), High Cost Fund *annual* disbursements increased by \$2-Billion dollars per year (from \$1.3-Billion to \$3.4-Billion) — of the \$2-Billion in additional high cost disbursements made in 2003, approximately \$120-million, or \$0.12-Billion (less than 7% of the total) went to CETCs.

<sup>15.</sup> Universal Service Administrative Company, Fourth Quarter 2003 Filing to the FCC, Appendix HC01 ("High Cost Support Projected by State by Study Area – 4Q2003"), available at <a href="http://www.universalservice.org/overview/filings/">http://www.universalservice.org/overview/filings/</a> (Accessed February 4, 2004).

Table 1.2

Growth in Revenue Collected by Explicit Revenue Transfer Mechanisms in the Federal High-Cost Support Plan (\$ Millions)

	First Year Instituted	First Full Year	2004 Projected*		
Long Term Support	1989	 <b>Funding</b> 235.70	\$	571.60	
Local Switching Support	1993	\$ 311.00	\$	465.63	
Interstate Common Line Support	2003	\$ 372.34	\$	453.29	
Total		\$ 919.04	\$	1,490.52	

Sources: Industry Analysis Division, Federal Communications Commission, Federal-State Joint Board Monitoring Report, October 2002; Universal Service Administrative Company, Fourth Quarter 2003 FCC Filing, Appendix HC01; Universal Service Administrative Co

Notes: 2004 - annualized from projected second quarter data.

In the present system, it is not the carrier that operates most efficiently or that provides the best service at the lowest cost that is being rewarded with an infusion of funds. Rather, it is the carrier with the highest costs that gets the bulk of the HCF support. The present "high cost" funding system makes no effort to distinguish between those small carriers that exhibit high costs because of specific high cost characteristics associated with the geographic realities of the areas they serve and those carriers that exhibit high costs because of inefficient operations, sloppy accounting, or worse. If a carrier is small and if its costs are "above average," it receives money from the fund. Subject to limited exceptions, <sup>17</sup> the higher a carrier's costs – whatever the costs are for – the more it receives from the fund.

<sup>17.</sup> As an example, there is a limit on the level of corporate operations expense that can be recovered from the fund for those carriers that exhibit costs that exceed a specified "benchmark." Below the benchmark, however, increases in a carrier's corporate overhead expenses generates increases in the carrier's draw from the USF fund.



The failure of the present system is evidenced by the sales of rural exchanges from large ILECs at levels substantially above book value and by the relatively low level of consolidation of rural "study areas" that has occurred during a period in which the remainder of the telecommunications industry has undergone significant consolidation.

The present system rewards small carriers for remaining small, and has even created the incentive for large carriers to sell off rural exchanges so that they will be owned by "small" carriers. The structure of the fund eliminates all incentives for small carriers to attempt to minimize costs through consolidation. An analysis of fund distributions shows that the smallest carriers receive the most per-loop support, and that larger carriers support drops dramatically as loop counts increase. For example, the average H.C.L. support payment per line to Rural ILECs with fewer than 50,000 lines is \$140. The average H.C.L. per line support payment for carriers with between 100,000 and 350,000 lines in a study area is more than 75% lower at \$30.18 Therefore, any dis-economies that carriers might achieve because they are small that might otherwise be unacceptable, are not—as they can recover those costs via USF mechanism. This is true even in cases in which costs could be decreased substantially via consolidation and associated scale and scope economies. This point is emphasized by the premium prices above net book costs that the larger ILECs like Owest and GTE-Southwest (who receive minimal USF per-loop support) were able to command for sale of rural exchanges to small carriers (like Century and Valor). Although this problem has been somewhat mitigated, the incentive for small carriers to remain small is still very present. An analysis of industry consolidation finds that generally, carriers have opted for large-scale, across the board consolidation, except in the cases of Rural ILECs.

#### Inefficiencies in RLEC operations are real and identifiable.

Throughout the remainder of this report, we identify inefficiencies found in the operations of the RLECs being subsidized by the Commission's RORR based system. Based upon this analysis, we estimate that in total, the Federal USF funding mechanism is subsidizing the Rural ILECs by as much as twice what would be necessary to fund efficiently operating entities.<sup>19</sup> Since Rural ILECs are projected to receive something in the range of two and a half billion dollars in 2004, a savings of 50% would reduce overall USF expenditures by over \$1-Billion per year (or more). While the regulatory method in place is clearly responsible for the overall level of inefficiencies observed across a broad sampling of RLECs, no attempt has been made to attribute these inefficiencies among the trio of possible RORR-related causes: system-incented inefficiencies; lack of regulatory oversight; and abuse. Our analysis of RLEC inefficiency focuses upon those limited areas where clean, comparable data for multiple RLECs exist—specifically, corporate operations expense and manage-

<sup>19.</sup> This estimate presumes that the inefficiencies that we have been able to identify in the areas that we have reviewed are occurring throughout the RLECs operations.



<sup>18.</sup> See Table 3.1 in Chapter 3.

#### Introduction

ment workforce levels. In addition to analysis of quantifiable evidence, we have also included "case studies" of several Rural ILECs.

The reliance of the High Cost Fund on embedded costs presumes that those costs are due to factors beyond the control of the LEC's management. Thus, the fund mechanism presents the Rural ILECs with an incentive to inflate their expenses in order to recuperate them via USF. The FCC has noted, in particular, that Corporate Overhead expense is one area particularly susceptible to inefficiency. Chapter 4 of this report contains a general analysis of inefficient Corporate Operations expense including the development of an efficiency benchmark and a calculation of the total inefficiency present nation-wide.

Chapter 5 and 6 continue the analysis of inefficiencies on a detailed, company specific basis. Chapter 5 illustrates that, despite a general relationship between the level of Corporate Operations expenses and firm size, there are significant deviations that occur between firms of a similar size. The combination of RORR and the USF mechanisms allow RLECs the ability to operate at inefficient levels. Analysis of individual company rate of returns before and after an adjustment to reflect efficient Corporate Operations expense demonstrates this fact. Chapter 6 undertakes a similar firm to firm comparison, using counts of Official and Management employees as the metric, and concluding, again, that RORR and USF combine to ensure the Rural ILECs that operate inefficiently are not penalized for doing so.

Replacement of the existing system with a USF-system based upon forward-looking costs will provide the appropriate incentives to RLECs while simultaneously replacing the cumbersome RORR-based system with a more easily implementable, and less regulatory, mechanism.

Replacement of rate or return regulation with an alternative regulatory mechanism similar to the original price cap plan implemented for the Tier 1 ILECs will eliminate some, but not all, of the inefficiencies encouraged by the present system. Combined with the use of a forward-looking cost model for determining high cost USF funding requirements in place of the embedded-cost based mechanism used today, the rewards for inefficiency and the opportunities for abuse would be drastically reduced. A forward-looking cost mechanism would result in USF funding that reflects the kinds of efficiency RLECs *should be obtaining* in their networks. More importantly, it should provide funding to those carriers that exhibit high costs as a result of the physical characteristics of the customer groups they serve, not those that exhibit high costs simply as a result of the ways they have historically chosen to do business.

# 2 RURAL ILECS EARNINGS: EVIDENCE THAT THE RORR SYSTEM IS NOT WORKING TODAY

Compounding the inefficiencies and opportunities for abuse that exist within the boundaries of the present rate of return-based USF funding mechanism is the fact that no single regulatory mechanism exists for *reviewing* the operating results of the firms drawing the funds. In essence, nobody is minding the regulatory store. A review of total company return information for rural ILECs from Texas, and interstate return data for RLECs that file form 492 data with the FCC corroborates what many in the industry have suspected to be true – many of these rural telcos have earnings that significantly exceed the level that has historically been authorized by regulators (in the 12% range), and in some cases double that amount.

Moreover, as interesting as the rural companies with earnings in excess of 20% are, those rural companies that have historically reported return levels in the negative or very low range (2%, 3% or 4%) may be even more interesting. One has to ask, why, in a regulated environment and with monopoly customers, a company would accept earnings of only a 2% or 3% return when its authorized rate is probably in the range of 12%? Assuming its investments and expenses are all legitimate, all such a firm would need to do to implement a rate increase – more than doubling or tripling its after-tax profits – is to demonstrate that it is earning below the authorized return. The only plausible explanation is a reluctance to have its books reviewed, as might be anticipated in the review of a rate increase application. Thus, by relying on USF funds rather than rate hikes to keep them afloat, such carriers are likely to avoid both the review of their earnings and any review of their regulatory accounting practices.

Among the problems inherent in a rate of return regulatory regime is the exacting examination of carriers operating costs, capital investments, and affiliate transactions that is required to ensure that the system is not being abused. In the case of the RLECs, detailed review and auditing of the rate of return based operations of the *approximately 1400* RLEC study areas is beyond the scope of anything either the FCC or the state regulators can manage. The FCC cannot eliminate rate of return regulation for the state operations of the RLECs, but, as the examples discussed below



demonstrate, it can and should get rid of this regulatory regime (used for the calculation of USF disbursements and for the regulation of interstate access services) that it cannot and is not managing. Replacement of the existing rate of return based high cost loop funding mechanism with a subsidy mechanism based upon easily auditable forward-looking cost model results, combined with a *true* price caps plan for regulation of interstate access services would, in addition to improving efficiency incentives, eliminate much of the need for detailed actual cost reviews.

Table 2-1 below contains a listing of selected rural ILECs and their reported RORR levels, representing both a high and a low range. The listing is not meant to be comprehensive, but rather illustrative of the levels of earning exhibited across rural ILECs drawing from the fund. The table also documents disbursements to these RLECs from the federal high cost fund and the number of lines served by the RLEC in that study area. The dual jurisdictions (federal and state) in which these carriers file reports and earn USF subsidies means that a unified view of their operations and practices is frequently not available. Compounding this effort, most of these companies are privately owned (and thus they have no SEC reporting requirements), and many file their interstate cost data with NECA rather than with the Commission directly. Thus, it is extremely difficult to look at the "whole picture" for any of these carriers and to evaluate the legitimacy of expenses or investments.

Fortunately, some limited data is available. In an effort to understand how "rate of return" regulation is being applied to the Rural ILECS, we chose to review the financial filing of the Electra Telephone Company (Electra) in Texas made to the PUC of Texas (PUC-T) in conjunction with the requirements of Texas Substantive Rule 26.71(f)(3).<sup>20</sup> Electra is a small Rural ILEC that was providing service to 1,947 access lines at the end of 2002. Electra is owned by Townes Telecommunications, a Rural ILEC holding company that owns several small Rural ILECs in Southern and Southeastern states. Electra has four employees located in Texas: one manager, one secretarial/administrative staff member, and two technicians.<sup>21</sup> USAC data shows that Electra has drawn approximately \$1.5-million per year for each of the last six years from the federal high cost fund (total draw, \$9.3-million for the period 1998 - 2003). The financial data filed by Electra for the year ending 2002 with the PUC-T shows it earning a rate of return of 27.9% on a total company basis. The preliminary evaluation of Electra is summarized below in Table 2-2. As the table demonstrates, 76% of Electra's reported income in 2002 came from universal service funding (the Texas and Federal funds combined). That factor, combined with an interstate RORR of almost 30%, suggested that Electra might be a good choice for further exploration.

<sup>21.</sup> Electra Telephone Company, Workforce and Supplier Diversity Form to the Texas Public Utility Commission, Year Ending December 31, 2002 ("Electra 2002 Workforce Report").



<sup>20.</sup> During the course of preparing this report we had occasion to review the Earnings Reports of a number of the Texas RLECs – this analysis revealed that not all carriers populated the Earnings Reports forms in the same manner. It is possible that some of the anomalous data discussed below are the result of filing or interpretation errors.

Table 2.1

Analysis of Selected Rural ILEC Earnings and USF High Cost Disbursements

		Total Company		Federal HCF Disbursements	
Carrier	Access Lines	RoR	Interstate RoR	(2002)	
Fort Bend Tel Co	46,078	2.3%	17.28%	\$3,035,189	
West Texas Rural Coop	2,093	2.5%	12.89%	2,240,339	
North TX tel coop	944	2.7%	29.76%	115,325	
Wes-Tex Tel Coop	3,262	2.7%	13.08%	943,974	
XIT	1,348	3.0%	4.42%	29,745	
Comanche Cty Tel Co	5,684	-4.1%	5.96%	1,148,502	
Ríviera telco	1,270	4.2%	4.81%	1,575,545	
Eastex Telephone Coop	33,381	4.8%	9.35%	7,997,092	
Valor	306,823	17.3%	29.24%	5,622,627	
Century Tel Lake Dallas	13,223	18.1%	13.07%	2,234,448	
Centel of TX	233,504	18.4%	29.92%	3,215,526	
South Plains Tel coop	5,527	18.4%	25.56%	574,986	
Cumby Tel Coop	1,960	21.5%	11.25%	495,507	
ENMR	950	23.2%	34.25%	16,872	
Nortex comm	4,379	26.0%	31.87%	0	
Border to Border	102	26.7%	36.23%	624,177	
Electra Telephone Co	1,947	27.9%	31.30%	1,653,797	
ACS of Alaska	n/a	n/a	20.5%	1,163,837	
Illinois Consolidated Telephone	n/a	n/a	23.6%	4,470,223	
Yates City Telephone	n/a	n/a	22.4%	1,756,767	
Moultrie Independent Tel. Co.	n/a	n/a	-13.3%	309,794	

Source: 2002 RLEC Annual Earnings Report to the Texas PUC.

Note: Some companies report customer counts in lieu of line counts. Those counts have been substituted herein. See Comanche, Eastex, and Cuby 2002 Earnings Reports.

Table 2.2		
Electra Telephone Company: A	Case Study	
		2002
Total Reported Access Lines		1,947
Number of Employees		4
Total Income inclusive of USF dollars (2002)	\$	3,130,112
Total Federal USF Dollars (2002)	\$	1,653,797
Total Texas USF Dollars (2002)	\$	718,068
USF Income as a percentage of total income		76%
Total Company ROR reported to Texas PUC		27.9%
Intrastate ROR reported to Texas PUC		26.5%
Estimated Interstate ROR	· · · · · · · · · · · · · · · · · · ·	29.5%
Source: Telephone Utilities Earnings Report of Electra Tel	lephone Company to	the Texas PUC
of the twelve months ending December 31, 2002.		

Review of Electra's 2002 filing raises more questions than it answers – in the case of Electra, rate of return regulation appears akin to no regulation at all.<sup>22</sup> Although it has four employees to provide service for the 2,000 lines in its territory, Electra made "affiliate" payments of just under \$1-million to Townes Telecommunications in 2002 (Texas does not require filers to detail the transactions, so it is not possible to see what services were provided in exchange for the \$983,323).<sup>23</sup> Put in perspective, Electra purchased \$505 worth of "services" from Townes for each and every access line it provided (none of the payment to Townes was capitalized). Combined with the \$782,917 in net return (after taxes) generated for its parent, a total of \$1.7-million in funds flowed out of Electra, Texas and into the coffers of Townes Telecom in Florida in 2002. It is extremely unlikely that any of the dollars being paid to Townes reflect the specific high-cost characteristics of Electra's service area, *yet these expenses are included in the basis for Electra's High Cost support.* 

Even a cursory review of Electra's filing with the PUC of Texas raises questions. Additional metrics of Electra's operations are found on Table 2-3. It appears likely that there has not been a formal review of Electra's operations in many years. Townes Telecommunications purchased the Electra Telephone Company in 1988. Review of the current filings appears to indicate that at that

<sup>23.</sup> Electra Telephone Company, 2002 Earnings Report to the Texas Public Utility Commission, Year Ending December 31, 2002 ("Electra 2002 Earnings Report"). Schedule VI.



<sup>22.</sup> As the discussion that follows will reveal, further review of Electra revealed that it inexplicably has historically reported very low and negative earnings -- although the earnings reported for each of the last three years has been higher than the year before, the jump between the 7.7% earnings for 2001 and the 27.9% reported for 2003 is in and of itself worthy of investigation.

time, Townes paid \$4.5-million in excess of the net book value of Electra's plant (estimated to have been around \$5-million)<sup>24</sup>. Electra appears to have been expensing the amortization of the premium it paid above book value in irregular increments, as it sees fit. Its accumulated depreciation expense likewise does not appear to be increasing in any regular pattern. In response to General Question 15 in the Texas Earning Reports, seeking information as to when depreciation rates were most recently set for the company, Electra responds that it does not know when the Company received authorization for the depreciation rates it is using – "Date unknown. Rates in effect when company purchased." At best this means that it has been 15 years since any regulator determined appropriate rates for the depreciation of Electra's capital investment.

Frequently, review of a company's financial reports is assisted by looking at its prior year's activities. Review of Electra's 2002 report in conjunction with the reports for the three previous years simply raises more questions. Consider the following: Electra's \$1-million payment to Townes for affiliate services in 2002 looks positively conservative following the \$1.8-million in affiliate payments Electra sent home to Townes for affiliate services in 2001 (\$1,016 per access line). Interestingly, Electra's overall level of "operating expenses" reported for 2002 was about \$1-million less than that reported for 2001 – an amount almost entirely explained by the reduction in affiliate payments to the parent Townes Telecommunications. Expenses in the plant-specific accounts, those accounts primarily associated with maintenance of equipment dropped by 50% (from \$1.2-million to \$0.6-million) – yet no major plant additions were reported for the preceding five years that might signal a change from an outdated, expensive-to-maintain network, to a new technologically efficient one. Corporate Operation expenses plunged in a similar manner – from \$987,000 in 2001 to \$537,000 in 2002.

<sup>26.</sup> This reduction in expenses may well be related to the cap on corporate operations expense recovery implemented as part of the RTF plan implemented in 2001.



<sup>24.</sup> *Id.*, at Schedule II, line 46. The Telephone Plant Acquisition account reflects the amount above book value paid for Telecommunications Plant. *See* 47 C.F.R. §32.2000 (b) (2002), and 47 C.F.R. § 32.2005 (a) (2002).

<sup>25.</sup> Electra 2002 Earnings Report, Schedule VI.

Table 2.3			· · · · · · · · · · · · · · · · · · ·
Analysis of USF Disbursements and Selected Metric	s for Electra	Γelephone	Company
Total Federal USF Dollar Received 1998 - 2003		\$	9,267,772
Total Plant Addtions recorded - 1998 - 2002	approx.	\$	175,000
Total Gross Plant in Service (year end 2002)		\$	5,417,561
Total Rate Base -Net Plant in Service (year end 2002_ (Invested Capital after Depreciation and w/o "Plant Acquisit	\$	2,858,713	
Estimated Average Month Rate for Local Service Per Line (including SLCs and all ancillary features)		\$	24.51
Total Return (before taxes)		\$	1,366,062
Total Return (after taxes)		\$	782,917
Total other direct "payments" to parent company		\$	983,323
Source: Telephone Utilities Earnings Report of Electra Tele the twelve months ending December 31, 2002.	ephone Comp	any to the	Texas PUC of

Such a substantial drop in overall operating expenses (a decrease of almost 40%) and affiliate payments should be accompanied by some major change in an RLEC's operations, but in this case that does not appear to be the case. No readily apparent explanation exists for the substantial drop in affiliate payments, or expenses overall, from the \$1.8-million range that was reported for 1999 through 2001, to the substantially lower \$1-million payment amount made in 2002. The number of access lines in service has varied by no more than a hundred or two during that time<sup>27</sup>, and the number of employees in Texas has remained at the same – four – throughout the entire period.<sup>28</sup>

While the need to invest in modern plant and upgrade facilities is frequently cited as justification for continuing rate of return regulation of the RLECs, substantial USF payments appear not to have stimulated much investment by Electra. During the period from 1998 to 2002, when Electra

<sup>28.</sup> Id., General Question 16.a.



<sup>27.</sup> Ranging from a high of 2,032 in 1999, to a low of 1,824 in 2001. See, Electra Telephone Company, 1999 Earnings Report to the Texas Public Utility Commission, Year Ending December 31, 1999; Electra Telephone Company, 2000 Earnings Report to the Texas Public Utility Commission, Year Ending December 31, 2000; Electra Telephone Company, 2001 Earnings Report to the Texas Public Utility Commission, Year Ending December 31, 2001; Electra 2002 Earnings Report, General Question 16.b.

collected in excess of \$7.6-million in USF high cost funds,<sup>29</sup> it reports less than \$0.2-million on Plant Additions.<sup>30</sup> TPIS held relatively steady at just between \$5.2- and \$5.4-million between 1998 and 2002.

Table 2-4 provides a comparison of results for Electra Telephone for the years 1999-2002 as reported in the earnings reports made to the PUC-T for some of the major rate of return reporting requirements. As the comparison demonstrates, while the quantity of access lines in service, number of employees, rate base, and total revenues remained relatively consistent across the four years for which data was available, overall expenses, particular in the last two years, changed dramatically.

	Tat	ole 2.4			
Comparison of Major ROR	R Reporting Re	equirements:	Electra Tele	phone, 1999 -	2002
					Change
	1999	2000	2001	2002	2001-2002
Income (including USF)	\$2,774,899	\$3,177,096	\$3,181,680	\$3,130,112	-2%
Expenses					
Plant Specific	\$1,238,164	\$1,186,157	\$1,245,653	\$622,579	-50%
Depreciation and Amort.	\$385,770	\$507,390	\$269,044	\$251,414	-7%
Other Plant Non-Specific	\$41,422	\$57,283	\$97,645	\$207,390	112%
Customer Ops	\$123,577	\$120,869	\$101,127	\$130,089	29%
Corporate Ops	\$989,262	\$1,012,684	\$985,951	\$537,113	-46%
Gross Plant in Service	\$5,299,517	\$5,374,321	\$5,398,310	\$5,417,561	0%
Net Plant in Service	\$4,302,603	\$4,208,490	\$3,079,951	\$2,858,713	-7%
Return before taxes	-\$3,296	\$292,713	\$482,260	\$1,381,527	186%
Return after taxes	-\$128,508	\$106,999	\$237,531	\$797,206	236%
RoR	-3.0%	2.5%	7.7%	27.9%	262%
Direct Expenses Paid to Affiliates	\$1,729,956	NA	\$1,853,735	\$983,323	-47%
Lines in Service	1,973	\$2,032	1,824	1,947	7%
Employees	4	4	4	4	0%
Source: Texas Earnings Reports					
Note: 2000 Affiliate Transaction data	a is not available	).			



<sup>29.</sup> Industry Analysis Division, Federal Communications Commission, Federal-State Joint Board Monitoring Reports, December 2003 ("Joint Board Monitoring Report"), Table 3.30.

<sup>30.</sup> Electra 2002 Earnings Report, Schedule XIV.

There may well be quite reasonable explanations for the data discussed above, including perhaps, some costs and/or revenues having been filled in improperly, or investments mistakenly labeled as expenses. Looked at in the best light, Electra made some amazing efficiency enhancements between 2000 and 2001, reducing expenses by almost 40% overall. In such a scenario the 27.9% 2002 earnings might represent a one time upward blip that will reveal itself to have been corrected downward (by reduced prices and/or USF payments) to a more reasonable level when the 2003 results are filed. However, even if the 2002 report represents nothing more than sloppy recordkeeping, sloppy record keeping by entities that are regulated and receive federal funds based upon that record-keeping can have major ramifications – particularly if such record-keeping in endemic across an industry. Assume, for example, that Electra has been upgrading its plant, and has been purchasing the equipment from its affiliate (a possible explanation for the large affiliate expenses prior to 2002 and the drop off in 2002), but has been classifying those dollars as expenses and recovering them in a single year, rather than capitalizing them. Such a mis-classification would have the effect of reducing Electra's reported earnings, thereby keeping regulators from requiring rate reductions or resulting in reductions in USF payments. Other, less favorable, interpretations might also exist, however, the lack of detail in the Texas reports makes it impossible to make any value judgements about those changes.

The unanswered questions about Electra's reports, the general lack of data available on the operations of these carriers, the wide range of rates of return, the absence of uniform reporting requirements, the lack of regulatory scrutiny – these evidence all suggest that the current rate of return system is not working properly. Further, they demonstrate the opportunities for substantial and harmful abuse. More important than any of the specifics uncovered in the review of Electra's filing with the PUC of Texas is the fact that unless the PUC of Texas (that is responsible for regulating close to 60 ILECs) identifies a problem within the Electra filing and chooses to undertake a comprehensive review of Electra's 2002 results, it is unlikely that anyone will seek answers to the questions raised by that filing.

# RORR-BASED FUNDING MECHANISMS DISCOURAGE EFFICIENT CONSOLIDATION OF STUDY AREAS

Federal universal service funding mechanisms discourage efficient consolidation of study areas. The data clearly show that the smallest Rural ILECs receive a disproportionate amount of federal USF support. The present system rewards small carriers for remaining small and has even created the incentive for large carriers to sell off rural exchanges so that they will be owned by "small" carriers. These incentives are incorporated into the very structure of the existing federal universal service support mechanisms.

The evidence presented in the chapters that follow suggests that Rural ILECs experience some scale economies relating to corporate overhead and administrative functions (see discussion of Table 3.1), and it is likely that their network-related costs may have some scale economies as well. However, unlike the large ILECs, the Rural LECs often avoid the consolidation that would permit them to reduce costs by obtaining larger scale operations, because any per-line cost reductions they achieve as a result of more efficient operations eventually will result in the reduction of their universal service support. Thus, from the RLEC's perspective, consolidation yields no benefits whatsoever.<sup>31</sup> Table 3.1 below demonstrates how the funding mechanism skews the disbursement of universal service support disproportionately to the smallest Rural ILECs.



<sup>31.</sup> One would think, for example, that the Border to Border Telephone Company of Texas, with 102 lines (see Table 3.1) would have a strong incentive to combine its operations with another rural carrier, but because it is guaranteed to receive federal support based on its embedded costs, it can survive and even turn a profit.

Federal High Cost Loop Payments by Carrier Size Category							
					Average		
	l	HCL Support	Loops within	Pa	yment/Loop,		
Size Category	Pa	ayments (2003)	Size Category		Annual		
0 - 50,000 Lines	\$	826,303,788	5,875,268	\$	140.64		
50 - 100,000 Lines	\$	163,534,407	2,050,274	\$	79.76		
100 350,000 Lines	\$	101,391,039	3,355,535	\$	30.22		
All RLECs receiving HCL	\$	1,091,229,234	11,281,077	\$	96.73		
Further disaggregations:							
0 5,000 Lines	\$	246,150,288	1,378,432	\$	178.57		
0 10,000 Lines	\$	452,822,811	2,612,471	\$	173.33		
0 20,000 Lines	\$	648,607,602	4,154,931	\$	156.11		
Source: Universal Service	Adm	instrative Compa	any Fourth Quar	ter F	Filings to the		

Source: Universal Service Adminstrative Company, Fourth Quarter Filings to the FCC, 2002-2003, Appendix HC05, available at http://www.universalservice.org (accessed January 27, 2004).

Table 3.1 is based on an analysis of the 2003 projected disbursements from the High Cost Loop ("HCL") support mechanism and its shows the direct (inverse) correlation between RLEC size and the size of its HCL payment: that is, the smaller the ILEC, the higher its per-loop HCL fund payment. The underlying data set includes all Rural ILECs projected to receive an HCL disbursement in 2003. We grouped those ILECs into three size categories, with breakpoints at 50,000 lines and 100,000 lines, and calculated the total HCL support payments due to ILECs within each size grouping, and their total lines. From that data, we calculated the average support payment per loop. In a similar fashion, we determined that the average support payment for all RLECs receiving HCL support was \$96.73 per loop. As 3.1 demonstrates, the carriers in the smallest size grouping, 0-50,000 Lines, receive far more support per loop, \$140.64, than the average for all carriers. And not surprisingly, the per-loop support falls off rapidly for the larger categories, from \$79.76 for the 50,000-100,000 Lines category, down to \$30.22 for the 100,000-350,000 Line category. The lower half of the table presents further disaggregations of the smallest carrier category, which confirms that the smallest ILECs are obtaining the highest levels of support on a per-loop basis. Considered in aggregate, the smallest size grouping, 0-50,000 Lines, receives over 75% of the HCL support



<sup>32.</sup> We excluded five ILECs in the USAC spreadsheet that were shown to have a projected payment of less than \$1000.

payouts, while serving half of the loops.<sup>33</sup> Additionally, it is only these same loops in the 0-50,000 Line size grouping that are eligible to receive Local Switching Support (LSS) funds. USAC projected LSS disbursements to RLECs in 2003 of a little over \$400-million, which equates to another \$70 per loop per year. Thus the average per-loop annual payment for LSS and HCL combined is \$240 – more than four times greater than the support being paid to carriers in study areas in the 100 - 350,000 Line size grouping.

### The failure of the present system is evidenced by the sales of rural exchanges from large ILECs at levels substantially above book value of the operations.

The sale of rural exchanges from large carriers to small carriers provides prima facie evidence that the existing funding mechanism rewards telcos for being small. The sale of rural exchanges at prices significantly in excess of net book value suggests something more – an expectation that the cash flow generated by the combination of local service revenue, interstate access charges and universal service subsidies will be sufficiently large to cover not only the cost of the plant and its operation, but the amortization of the substantial premium paid as well.

Table 3.2 below documents the above-cost premium paid to GTE-Southwest in connection with the sale of exchanges in three separate transactions in four states in the year 2000.<sup>34</sup> As the table demonstrates, in summer of 2000, GTE-Southwest concluded sales to Valor Telecom and Century Telephone ("Century Tel") of approximately 650,000 lines in four states. In each sale, the price paid for the access lines was more than twice their net book value. Valor Telecom paid a premium of more than \$2,000 per access line for property in Oklahoma and a \$1600 per line premium for the exchanges in Texas and New Mexico, while Century Tel paid a premium of \$2,200 per line in Arkansas. In total, GTE-Southwest booked a gain of in excess of \$1-billion for the sale of these exchanges. Like GTE, Qwest also sold off a number of exchanges to smaller carriers. Qwest reported the sale of 20,000 access line in North Dakota and South Dakota in 2000.<sup>35</sup> The access lines were sold for a total payment of \$19-million, more than half of which - \$11-million - was recorded as a gain. Based upon this data, it appears that Qwest sold these access lines, whose net book cost must have been in the range of only \$400 per line (for all plant, not just NTS plant), for approximately \$950 per line. Why would a Rural LEC pay so large a premium for second-hand plant and the right to serve the associated customers? It is unlikely that the RLEC can raise prices to twice the level these customers paid for service from Owest. It is also unlikely that these providers have an expectation of operating twice as efficiently. Thus, the most plausible explanation is



<sup>33.</sup> That is, \$826-million / \$1.09-billion equals 76%, while 5.9-million / 11.3-million equals 52%.

<sup>34.</sup> GTE-Southwest, 2000 10K Report filed with the US Securities and Exchange Commission, March 30, 2001.

<sup>35.</sup> Owest Corporation, 2000 10K Report filed with the US Securities and Exchange Commission, April 2, 2001.

that the buyers are anticipating that the flow of support from USF payments will exceed the costs of providing service.

Table 3.2

Access Lines Sold by GTE-Southwest to Smaller Entities Commanded a Premium

More Than Twice the Net Book Cost of the Assets

				Gain	Estimated	Sale Price as a % of	Premium
Buyer	State/Date of Sale	No. of Lines	Cash Proceeds	Recorded on Sale	Net Book Value	Book Value	Paid Per Line
			(\$000)	(\$000)	(\$000)		
		(a)	(b)	(c)	(a) - (b)		
Valor	Oklahoma 6/30/00	130,000	\$ 420,300	\$ 264,500	\$ 155,800	270%	\$ 2,035
Century	Arkansas 7/31/00	93,000	\$ 332,900	\$ 208,900	\$ 124,000	268%	· ·
Valor	TX & NM 8/31/00	425,000	\$ 1,249,600	\$ 681,600	\$ 568,000	220%	\$ 1,604

Source: GTE-Southwest, 2000 10K Report filed with the U.S. Securities and Exchange Commission, March 30, 2000.

In fact, state regulators appear to be aware of this potential motivation. In an Order approving a settlement related to the proposed (but never consummated) sale of 154,000 access lines in Arizona from Qwest to Citizens Tel (originally brokered in December, 1999) the Arizona PUC discusses the possibility that additional funds might flow from the Federal USF once the sale is completed.<sup>36</sup> As documented in the Order, Citizens had agreed to purchase 154,000 access lines in Arizona for a price approximately \$112-million in excess of the net book value of the plant (identified in the Order as Qwest's "gain"). The settlement included a provision that Citizens would "provide the same products and services" as Qwest at rates "which mirror Qwest's tariffs on file at the Commission." Looking forward, it also contained the following provision:

If Citizens obtains additional revenues from the Federal Universal Service Fund related to the wire centers it is acquiring from Qwest, the rates and charges adopted by Citizens will



<sup>36.</sup> In the Matter of Joint Application of Qwest Corporation and Citizens Utilities Rural Company, Inc. for Approval of the Transfer of Assets in Certain Telephone Wire Centers to Citizens Rural and the Deletion of those Wire Centers from US West's Service Territory, Arizona Corporation Commission Docket Nos. T-01051B-99-0737, T-01954B-99-0737, Decision No. 63268, 2000 Ariz. PUC LEXIS 3, August 24, 2000, at 5.

be interim and subject to refund in the next rate case, effective on the date Citizens becomes entitled to the additional Federal Universal Service Fund revenues.<sup>37</sup>

Taken at face value, the Arizona stipulation seems to acknowledge that Citizens any additional funds that Citizen might obtain from the Universal Service Fund (as a result of acquiring the new exchanges) would not actually be needed by Citizen's in order to cover its cost of service.

The Commission has taken one positive step toward addressing this situation. As part of its adoption of the 2001, Rural Task Force Plan, the FCC attempted to implement stop-gap caps into its USF rules, for the purposes of removing the incentives that allowed carriers like Qwest and GTE to benefit from selling rural exchanges and the rural telcos to benefit from buying them. The new "cap" limited the draw of Rural LECs who acquired an exchange to the draw of the carrier from whom the exchange was purchased. Moreover, it applied not only on a going-forward basis but also to any access lines subject to exchange sale agreements concluded after May 7, 1997. Less than two years after the RTF order was released, <sup>39</sup> Valor – a company formed through purchase of rural exchanges from GTE – asked for a broad waiver of this rule. As of this writing, Valor's waiver petition remains pending. <sup>40</sup>

The cap on USF funds drawn from sold rural exchanges imposes some limitations, but the fact remains that the inefficient RORR-based USF system continues to allow the rural telcos to buy exchanges and get some additional amounts of USF support, higher access charges, and increased interconnection rates. Moreover, for exchanges that have not been owned by small Rural ILECs all along, the system continues to generate precisely the same kinds of revenues flows that caused the value of those exchanges (described above) sold from Qwest and GTE-Southwest to be more than twice the net book value of the plant.



<sup>37.</sup> Id., at 5.

<sup>38. 47</sup> C.F.R. § 54.305.

<sup>39.</sup> In the Matter of Federal-State Joint Board on Universal Service, CC Docket No. 96-45; Multi-Association Group (MAG) Plan for Regulation of Interstate Services of Non-Price Cap Incumbent Local Exchange Carriers and Interexchange Carriers, CC Docket No. 00-256, Fourteenth Report and Order, Twenty-Second Order on Reconsideration, and Further Notice of Proposed Rulemaking in CC Docket No. 96-45, and Report and Order in CC Docket No. 00-256, FCC 01-157, 16 FCC Rcd 11244 (2001) ("Rural Task Force Order").

<sup>40.</sup> As Table 3.2 illustrates, Valor purchased at least some of the access lines that it now seeks additional funding for at a cost greatly in excess of the net book costs of the plant. See, *In the Matter of Federal-State Joint Board on Universal Service*, CC Docket No. 96-45, Valor Telecommunications of Texas L.P. Petition for Waiver of Section 54.305, April 11, 2003.

## The number of RLEC study areas has remained relatively constant despite the significant consolidation that has occurred throughout the rest of the telecom industry.

Corroborating the evidence that the present system provides an incentive to RLECs to remain small is the relatively low level of consolidation of rural study areas that has occurred during a time when the rest of the telecommunications industry has experienced significant consolidation. There was a string of large mergers involving the original seven RBOCs starting in the late 1990s, including: SBC-Pacific Telesis, effective January 30, 1997;<sup>41</sup> NYNEX-Bell Atlantic, effective August 14, 1997;<sup>42</sup> SBC-SNET, effective October 23, 1998;<sup>43</sup> Ameritech-SBC, effective October 8, 1999;<sup>44</sup> Qwest-US West, effective March 10, 2000;<sup>45</sup> and GTE-Bell Atlantic, effective June 16, 2000.<sup>46</sup> These mergers reduced the number of the largest ILECs (including GTE) from eight to four. Figures 3.1 and 3.2 demonstrates the consolidation of access line shares that has occurred for the non-rural segment of the local exchange industry.



<sup>41.</sup> In re Applications of Pacific Telesis Group Transferor, and SBC Communications, Inc. Transferee, For Consent to Transfer Control of Pacific Telesis Group and its Subsidiaries, Report No. LB-96-32, Memorandum Opinion and Order, FCC 97-28, 12 FCC Rcd 2624 (1997).

<sup>42.</sup> In re Applications of NYNEX Corporation, Transferor, and Bell Atlantic Corporation, Transferee, For Consent to Transfer Control of NYNEX Corporation and its Subsidiaries, File No. NSD-L-96-10, Memorandum Opinion and Order, FCC 97-286,12 FCC Rcd 19985 (1997).

<sup>43.</sup> Section 214 Authorizations from; Southern New England Telecommunications Corporation, Transferor To SBC Communications, Inc., Transferee, CC Docket No. 98-25, Memorandum Opinion and Order, FCC 98-276, 13 FCC Rcd 21292 (1998).

<sup>44.</sup> In re Application of Ameritech Corp., Transferor, and SBC Communications, Transferee, For Consent to Transfer Control of Corporations Holding Commission Licenses and Lines Pursuant to Sections 214 and 310(d) of the Communications Act and Parts 5, 22, 24, 25, 63, 90, 95 and 101 of the Commission Rules, CC Docket No. 98-141, Memorandum Opinion and Order, FCC 99-279, 14 FCC Rcd 14712 (1999).

<sup>45.</sup> In the Matter of Qwest Communications International Inc. and US WEST, Inc.; Applications for Transfer of Control of Domestic and International Sections 214 and 310 Authorizations and Application to Transfer Control of a Submarine Cable Landing License, CC Docket No. 99-272, Memorandum Opinion and Order, FCC 00-91, 15 FCC Rcd 5376 (2000).

<sup>46.</sup> In re Application of GTE Corporation, Transferor, and Bell Atlantic Corporation, Transferee, For Consent to Transfer Control of Corporations Holding Domestic and International Sections 214 and 310 Authorizations and Application to Transfer Control of a Submarine Cable Landing License, CC Docket No. 98-184, Memorandum Opinion and Order, FCC 00-221, 15 FCC Rcd 14032 (2000).

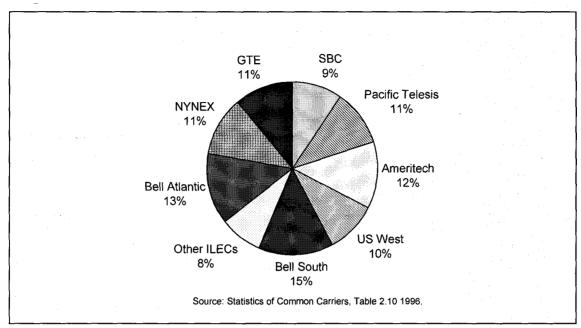


Figure 3.1. Access Line Shares Prior to RBOC Mergers (1996).

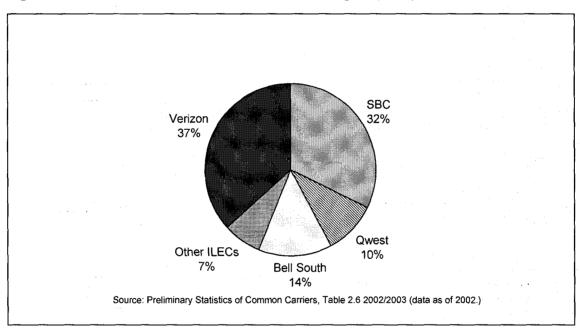


Figure 3.2. Current Access Line Shares After SBC/Ameritech Merger (2002).

In contrast, Rural ILECs appear to have experienced much less merger and consolidation activity over that time frame than did the large ILECs. Although it is difficult to collect data that tracks changes in Rural ILEC ownership and consolidation over time across the country, a database maintained by the Wisconsin PSC provides some illustrative data. In Wisconsin, only a handful of

companies were acquired, merged, or sold exchanges between 1996 and 2001. In 1996, there were 87 operating companies in Wisconsin.<sup>47</sup> In 2001, that number had fallen by only five, to 82.<sup>48</sup> The largest transaction by far was the sale of the exchanges in two GTE-North Study Areas to Century Tel, which involved about 470,000 access lines. However, rather than integrating those exchanges into its existing Wisconsin operating companies, Century Tel organized them into distinct operating companies (known as Telephone USA and Century Tel of Central Wisconsin). In 1998, Century Tel also acquired 19 exchanges from Ameritech-Wisconsin and similarly maintained them as a separate operating company and study area. All of these entities continue to receive high cost support.<sup>49</sup> The remaining transactions in Wisconsin over those five years – involving the Crandon Telephone Company, Fairwater-Brandon-Alto Telephone Company, Frontier Communications Lakeshore, Headwaters Telephone Company, People's Telephone Company, Rib Lake Telephone Company, and the Wayside Telephone Company – affected about 26,000 lines, or less than one percent of the state's total number of access lines in 1996.<sup>50</sup>

Data maintained by the Federal-State Joint Board on study area changes also suggests that there has been little consolidation of Rural ILEC operations in other states as well. A Joint Board summary of study area changes that occurred across the country from 1998 through 2002 shows only nine ILEC mergers or acquisitions that resulted in the elimination of a study area by consolidation with another study area.<sup>51</sup> Only one such transaction is reported for each year 1998, 2000, and 2001, and the remaining six occurred in 1999.<sup>52</sup> Excepting the 1998 merger of the Danube Telephone Company (Minnesota) for which we do not have data, the other eight companies combined reported only some 21,000 lines in 1999,<sup>53</sup> confirming that the scale of this activity has been exceedingly small. The only meaningful consolidations that have occurred since 1998 have been the formation of Iowa Telecom Services and the Valor Telecommunications Company, both of which were new ILECs formed by acquiring exchanges from other operators. Today, these



<sup>47.</sup> Wisconsin PSC telephone company database; several of the operating companies were subsidiaries of Century Tel; however, they remained separate entities for regulatory reporting and ratemaking purposes.

<sup>48.</sup> Id.

<sup>49.</sup> See Universal Service Administrative Company, First Quarter 2004 Filing to the FCC, Appendix HC01 ("High Cost Support Projected by State by Study Area – 1Q2004"), available at <a href="http://www.universalservice.org/overview/filings/">http://www.universalservice.org/overview/filings/</a> (accessed February 10, 2004).

<sup>50.</sup> Analysis of Wisconsin PSC database (comparing 1996 vs. 2001 data for "Annual\_Rpt\_View").

<sup>51.</sup> Joint Board Monitoring Report, Table 3.37.

<sup>52.</sup> Id.

<sup>53.</sup> Universal Service Administrative Company, First Quarter 1999 Filing to the FCC, Appendix HC01 ("High Cost Support Projected by State by Study Area – 1Q1999"), available at <a href="http://www.universalservice.">http://www.universalservice.</a> org/overview/filings/ (accessed February 10, 2004).

companies serve 120,621 and 536,274 access lines, respectively – in total, just 3% percent of the 21,480,848 lines served today by Rural ILECs.<sup>54</sup> Moreover, the formation of those companies did not result in a net reduction in study areas.<sup>55</sup> Indeed, the Joint Board data indicates that 27 new study areas were created during the 1998-2002 period, only two of which covered previously unserved territory.<sup>56</sup> Even when considered net of the nine study areas eliminated through consolidations noted above, the net gain of 18 study areas suggests a trend toward fragmentation rather than consolidation among Rural ILECs.



<sup>54.</sup> Universal Service Administrative Company, Second Quarter 2004 Filing to the FCC, Appendix HC05 ("High Cost Loop Support Projected by State by Study Area – 2Q2004"), available at <a href="http://www.universalservice.org/overview/filings/">http://www.universalservice.org/overview/filings/</a> (accessed February 10, 2004).

<sup>55.</sup> Joint Board Monitoring Report, Table 3.37.

<sup>56.</sup> Id.

## 4

#### BENCHMARKING ANALYSIS DEMONSTRATES RORR-REGULATED RURAL ILECS ARE OPERATING INEFFICIENTLY

This chapter of our Report examines the comparative performance of Rural ILECs, to identify the best-performing Rural ILECs and to assess the extent to which under-performing Rural ILECs are diverting federal USF payments from their primary mission. We conduct a benchmarking analysis that demonstrates that about one-third of the Rural ILECs' claimed expenses relating to corporate overheads are being incurred in an inefficient manner. On an aggregate basis, these inefficiencies amount to some \$545-million annually. Finally, we show that the existing FCC cap on corporate overheads applied in the High Cost Loop support mechanism fails to prevent the lion's share (some 77%) of those inefficiencies from flowing into the cost calculations that are the basis for Rural ILEC's HCL payments, meaning that HCL requirements are also being significantly overstated.

#### High Cost support is ultimately intended to benefit telephone subscribers, but it is disbursed to LECs.

The primary mission of the FCC's "high cost" universal service support program is to ensure that the rates for basic telephone service in the relatively high-cost, rural regions of the U.S. will continue to be affordable by keeping rural telephone rates "reasonably comparable" to the rates prevailing in lower-cost areas of the country. <sup>57</sup> While the intent is clearly to promote the welfare of telephone service



<sup>57.</sup> See, e.g., Federal State Joint Board on Universal Service, CC Docket No. 96-45, Order on Remand, Further Notice of Proposed Rulemaking, and Memorandum Opinion and Order, FCC 03-249, 18 FCC Rcd 22559 (2003), ("Remand Order"), at para. 15, footnote 29. The "reasonably comparable" standard stems from Section 254(b)(3) of the Telecommunications Act of 1996. See, Telecommunications Act of 1996, Pub. L. No. 104-104, 110 Stat. 56 (1996) ("1996 Act"). The 1996 Act amended the Communications Act of 1934. 47 U.S.C. §§ 151, et seq. ("Communications Act"). References to section 254 in this Report refer to the universal service provisions of the 1996 Act, which are codified at 47 U.S.C. 254 of the Act. 47 U.S.C. § 254; see also 47 U.S.C. § 214(e).

subscribers, the program's funds are disbursed to the *carriers* providing service in the rural high-cost service territories. Each of the five federal high-cost programs in place today for rate-of-return regulated Rural ILECs<sup>58</sup> relies on carrier submissions of certain embedded (i.e., booked) cost and demand data. These filings are used to determine how much financial support will be provided to each Rural ILEC to compensate it for operating in a service territory with relatively high costs of providing basic telephone service.<sup>59</sup>

All of these programs presume, without any substantive process for verification, that when a Rural ILEC reports that its costs exceed the benchmark level to qualify for universal service funding, that those costs reflect legitimate differences in costs of service due to factors beyond the control of the ILECs' management. There are, of course, many such exogenous influences on costs for the facilities and activities that are directly related to provision of telephone service. For example, a Rural ILEC operating in a mountainous region may incur higher outside plant construction costs than it might elsewhere, e.g. if excavation encounters more rock and network routing has to accommodate more natural obstacles. Similarly, a Rural ILEC operating in higher northern latitudes may confront higher outside plant maintenance costs due to colder weather, storms, and tree-trimming requirements. Demographic factors, particularly low population density and a dispersed customer base, can also drive costs of service upward in rural areas.

However, under the current federal USF system, Rural ILECs can (and as shown later in this section, apparently do) receive federal USF support when their claims of higher costs are not driven by these types of legitimate exogenous costs, but instead reflect inefficient operations, poor management, waste, or even outright fraud. The basic problem of a cost-based universal service system is exacerbated by the fact that the great majority of Rural ILECs have been operating under traditional rate of return regulation for decades. It is generally accepted by economists and regulators who have examined the issue that a firm regulated under an RORR framework faces incentives to increase and/or overstate its costs. Indeed, the FCC reached this conclusion when it reviewed the incentives of rate of return regulation and their effects upon ILEC behavior in the *Further Notice of Proposed Rulemaking* in its price caps proceeding, CC Docket 87-313. As explained by the Commission at that time:

... rate-of-return regulation provides regulated firms with very strong incentives to pad their rates, for essentially two reasons. First, as a profit-maximizer, the firm is led to adopt the most costly, rather than the most efficient, investment strategies because its primary means of increasing dollar earnings under rate-of-return



<sup>58.</sup> Rural ILECs are elible to receive USF funding from the High Cost Loop support ("HCL"), Long Term Support ("LTS"), Local Switching Support ("LSS"), Interstate Common Line Support ("ICLS"), and Safety Valve support ("SV") programs.

<sup>59.</sup> While competitive ETCs are eligible for high-cost support, they receive support based on the costs reported by the Rural ILEC operating in the given study area.

constraints is to enlarge its rate base. This is commonly known as the Averch-Johnson effect or "A-J" effect of rate-of-return. Second, since all operating expenses are included in a firm's revenue requirement under rate of return, management has little incentive to minimize operating costs. This is commonly known as "X-inefficiency." The firm's shareholders profit from the first phenomenon, and the benefits of the second redound to the firm's management. In both cases, however, consumers suffer because these distorted incentives increase the cost of doing business - and thus the rates consumers must pay for service. 60

The FCC's review noted several studies that found these effects to have significant impacts upon regulated firms' costs, including "one showing unit cost increases on the order of 6 to 12 percent" due to A-J type distortions <sup>61</sup> and a unit cost differential of approximately 11 percent for monopoly electric utilities subject to RORR relative to such utilities in situations where some competitive forces exist. <sup>62</sup> These studies presumably were assessing RORR in situations where some regulatory monitoring and investigations were actually being performed. As discussed earlier in this report, the minimal amount of regulatory oversight that is actually being applied to the vast majority of Rural ILECs would only increase their incentives and opportunities to swell their costs further.

We now turn to an examination of the costs reported by Rural ILECs and an assessment of how much of those costs can be attributed to inefficient performance.

### Corporate operations expenses can be compared among Rural ILECs and analyzed for inefficient performance.

Our examination focuses on the costs for Corporate Operations (USoA accounts 6710-6790) that are reported by Rural ILECs..<sup>63</sup> These accounts record the expenses for general corporate overhead functions such as executive management, accounting and finance, human resources/personnel, information management, legal support, and other similar administrative support activities. As discussed below, the FCC has previously conducted its own analysis of these expenses and determined that certain



<sup>60.</sup> In the Matter of Policy and Rules Concerning Rates for Dominant Carriers, CC Docket No. 87-313, Further Notice of Proposed Rulemaking, FCC 88-172, 3 FCC Rcd 3195, 3219 (footnotes omitted).

<sup>61.</sup> Id., 3 FCC Rcd 3195, 3220.

<sup>62.</sup> Id., 3 FCC Rcd 3195, 3222.

<sup>63.</sup> Our analysis does not encompass competitive local exchange carriers ("CLECs") that provide service in rural areas as ETCs that may also qualify for high cost support, as the CLECs tend to have very different cost structures than the ILECs and are not operating under rate of return regulation.

limits should be placed on how much of Corporate Operations are recoverable from the federal high cost USF programs.

Corporate Operations normally represent a relatively small share of an ILECs' total cost structure, which is dominated by the capital costs of its network plant (i.e., depreciation, return on investment, and taxes) and the plant-related expenses associated with network maintenance and repair activities. However, it is difficult to evaluate directly the efficiency with which Rural ILECs incur those latter plant-related capital costs and expenditures. In particular, many measures of ILECs' plant-related costs (such as Total Plant in Service ("TPIS") per access line or route mile, or annual outside plant maintenance expense on a similar basis) can be expected to vary widely among differently-situated carriers, precisely because of the kinds of exogenous geographic and demographic cost drivers noted above. Thus, it can be quite difficult to isolate any management or operational failings from those effects. Analysis of annual outlays for capital expenditures ("capex") runs into similar problems. For example, if one Rural ILEC spends 50% more per-mile of feeder plant deployed, does that reflect inefficient construction practices (excessive wage rates, "gold-plating" of facilities), or more costly soil conditions for excavation? Making such determinations would require far more data than is available in carriers' annual financial/operational reports, and is beyond the scope of this Report.<sup>64</sup>

In contrast, Corporate Operations are largely unaffected by those types of exogenous conditions, and thus are more amenable to comparative analysis. Corporate overheads are largely driven by the size and complexity of the firm. <sup>65</sup> Consider, for example, the expenses relating to maintaining a company's physical security. By definition, physical security surveys, investigations, and arrangements are intended to safeguard specific land and buildings, other capital assets, and/or employees of the company. For example, if the company acquired a new building, the company would incur the costs of installing and operating security card access mechanisms, alarm systems, and possibly surveillance cameras. In addition, the company would hire some security staff for that particular building. Thereafter, the building would need to be included in routine physical security surveys, and incidents in the building might trigger specific security investigations. Clearly, these security costs are sensitive to the volume of land/buildings, other capital assets, and/or employees of the company, all of which will tend to increase with the size of the company. Moreover, none of those expenses tend to bear any direct relationship to exogenous cost factors rooted in rural geography or demographics.



<sup>64.</sup> Of course, the fact that inefficiencies relative to network-related costs are harder to identify does not mean that they do not exist. To the contrary, the inherent complexity of modern telecommunications networks suggests that local networks are more difficult to manage and operate efficiently than many other kinds of businesses.

<sup>65.</sup> In earlier work, ETI has demonstrated by statistical regressions that overhead costs vary directly with firm size. See California Public Utilities Commission Docket R.93-04-003/I.93-04-002, *Declaration of Patricia D. Kravtin and Sonia N. Jorge in Support of Opening Comments of AT&T Communications of California, Inc. and MCI Telecommunications Corp. on Pacific Bell's Cost Studies*, April 8, 1997.

Consequently, for similarly-sized companies, one would not expect to find large variations in the overall level of costs reported for most categories of corporate overheads. Where large variations exist, they are more likely to reflect differences in endogenous performance. The most efficiently-performing carriers will tend to have the lowest levels of corporate overhead costs. Conversely, the highest reported levels of corporate overheads suggests that those ILECs may have unusual degrees of management and administrative inefficiency, or possibly may be engaged in fraud or other forms of malfeasance. The data that we have been able to collect and review is insufficient on its own to conclude that any specific company is engaged in improper accounting or other specific misconduct or inefficiencies. Nevertheless, as discussed in further detail below, we are able to conclude that Rural ILEC inefficiencies are real and identifiable, and are having a substantial upward impact on the cost-based federal USF programs.

### The FCC imposed a cap on corporate overhead expenses recoverable through HCL support, in recognition of the discretionary nature of corporate overhead expenditures.

The Commission has recognized for many years the potential problems created by allowing ILECs to recover corporate overheads and other administrative expenses through the federal USF programs. In a July 1995 *Notice of Proposed Rulemaking* in CC Docket 80-286, the Commission observed that:

Some regulators and industry commenters are troubled by the inclusion of administrative costs in the loop costs that define a LEC's eligibility for USF assistance under the current rules, because they believe that such costs are highly discretionary. Several parties suggest that we should exclude some or all administrative costs from the USF formula. We tentatively agree that administrative costs do not appear to be costs inherent in providing service in high-cost areas of the country. For those reasons, we propose to remove costs recorded in Account 6710, Executive and Planning, and Account 6720, General and Administrative, and Account 6120, General Support Expenses, from the loop costs used to determine eligibility for a level of USF assistance.<sup>66</sup>

The Commission subsequently adopted a limitation on LECs' ability to recover corporate overhead costs from the High Cost Loop ("HCL") support program in its major May 1997 universal service order. <sup>67</sup> After agreeing with commenters that "these [corporate operations] expenses do not appear to



<sup>66.</sup> Amendment of Part 36 of the Commission's Rules and Establishment of a Joint Board, CC Docket No. 80-286, Notice of Proposed Rulemaking and Notice of Inquiry, 10 FCC Rcd 12309, 12324-25 (1995).

<sup>67.</sup> Universal Service Report and Order, 12 FCC Rcd 8776.

be costs inherent in providing telecommunications services, but rather may result from managerial priorities and discretionary spending,"<sup>68</sup> the Commission adopted a cap on the amount of Corporate Operations expense that a LEC could include in its HCL support calculations.<sup>69</sup> The cap was adopted for Rural ILECs as well as Non-rural ILECs.<sup>70</sup>

However, in the *Rural Task Force Order* released in May 2001,<sup>71</sup> the Commission made further adjustments to the cap that loosen it considerably. First, the Commission modified the cap by adopting an annual inflation adjustment, so that it will increase each year by the amount of the Gross Domestic Product-Chained Price Index ("GDP-CPI").<sup>72</sup> Second, the Commission also increased the Corporate Operations expense cap applying to the smallest Rural ILECs (under 6,000 lines), from \$300,000 to \$600,000 per year.<sup>73</sup> Finally, the Commission re-based the cap so that it would be raised to reflect accumulated inflation (per the GDP-CPI) since 1995, which was the vintage of the data used in analysis supporting the original cap.<sup>74</sup> The latter change alone has allowed the per-line cap (excluding effects of the small Rural ILEC limitation) to increase 13.8% from the level originally adopted.<sup>75</sup>

Apart from these adjustments, it must be recognized that the FCC cap was not designed to limit Rural ILECs' Corporate Operations expenses to *efficient* levels, but only to the *average* level of performance that they had achieved in the past. Because the cap was derived from a regression analysis on the ILECs' 1995 cost support filings, it reflected *all* ILECs, regardless of whether they were operating efficiently or not. Therefore, while the cap has offered some protection against the recovery of excess corporate overheads through the HCL support mechanism, it can also be said to have *institutionalized* the level of corporate operations inefficiency extent in 1995, and thus allowed those inefficiencies to continue to be reflected in the HCL support mechanism up to the present day. As we



<sup>68.</sup> Id., 12 FCC Rcd 8776 at 8931, para. 283.

<sup>69.</sup> The original cap was based on a regression performed by FCC Staff on ILEC expense data submitted by the National Exchange Carrier Association ("NECA") in its annual filing (using 1995 data). The regression produced a "projected" level of Corporate Operations expense per access line for ILECs of varying sizes, and the Commission limited ILECs' recoverable expenses to a "zone of reasonableness" of no more than 115% above those projections. *Id.* at 8931-32.

<sup>70.</sup> Id., 12 FCC Rcd 8776 at 8942.

<sup>71.</sup> Rural Task Force Order, 16 FCC Rcd 11244.

<sup>72.</sup> Id., 16 FCC Red 11244, at 11275, para. 72.

<sup>73.</sup> Id., 16 FCC Rcd 11244, at 11275, para. 74

<sup>74.</sup> Id., 16 FCC Rcd 11244, at 11275, para. 73.

<sup>75.</sup> The GDP-CPI increased from 93.30 at year-end 1995 to 106.16 at year-end 2003, a 13.8% increase. Bureau of Economic Analysis, US Department of Commerce, available at <a href="http://www.bea.doc.gov/bea/">http://www.bea.doc.gov/bea/</a> (Accessed February 6, 2004).

address below, however, it is possible to identify and root out those embedded inefficiencies, by benchmarking Rural ILECs' corporate overhead levels against the best-performing of their peers.

### Benchmarking analysis reveals that about one-third of Rural ILECs' total claimed corporate operations expenses are attributable to inefficient performance.

Benchmarking is the comparison of one company's operations with those of other companies that exhibit superior performance in the specific areas to be analyzed. Originally popularized by Robert C. Camp<sup>76</sup> (among others), benchmarking is now a fairly common management tool that seeks to identify "best practices" among comparable firms and apply those business processes to another firm to improve its performance. Although the process of re-engineering aspects of a comprehensive benchmarking effort are beyond the scope of this report, it is feasible to compare the Corporate Overheads of the Rural ILECs and identify a superior-performing, "best-in-class" subset of those companies. Using the "best-in-class" as a baseline of presumably efficient performance, one can estimate the amount of reported Corporate Operations expenses that is in excess of the baseline level, and thus attributable to inefficient performance.<sup>77</sup>

We have undertaken such an analysis using data supplied in the National Exchange Carrier Association ("NECA") USF Submission for 2003, filed with the Commission and USAC on October 1, 2003. This filing provides calendar year 2002 embedded cost data and access line (loop) information on a study area basis, for 874 Rural ILEC study areas. These study areas contain some 90% of the working loops operated by Rural ILECs that are under rate-of-return regulation, and thus provide a close approximation to the entire universe of Rural ILECs subject to RORR. Figure 4-1 below provides a graph of total Corporate Operations expense vs. loops for each of the Rural ILEC



<sup>76.</sup> Robert C. Camp, Business Process Benchmarking, Finding and Implementing Best Practices, ASQC Quality Press, Milwaukee, Wisconsin, 1995.

<sup>77.</sup> In this sense, "inefficiency" would also encompass deliberate overspending (e.g., unwarranted increases to officers' compensation), as well as inferior management practices.

<sup>78.</sup> Industry Analysis Division, Federal Communications Commission, *NECA's Overview of the Universal Service Fund, Submission of 2002 Study Results, October 2003*, available at <a href="http://www.fcc.gov/wcb/iatd/neca.html">http://www.fcc.gov/wcb/iatd/neca.html</a> (Accessed January 10, 2004).

<sup>79.</sup> NECA's filing also includes data for Non-rural ILECs, but we have screened them out of the analysis. Competitive ETCs do not report costs to NECA (or the Commission) and thus are not included in the dataset.

<sup>80.</sup> That is, 19.508-million (USF loops in NECA Rural ILEC study areas)  $\div$  21.577-million (USAC 2002 working loops for Rural ILEC study areas) equals 90.4%.

study areas with 100,000 lines or less.<sup>81</sup> The graph also shows the FCC's expense cap, which runs roughly through the center of the envelope of individual datapoints.

Focusing on any particular size range portrayed on the graph, it is clear that there is a wide range of overhead expense levels being reported by the Rural ILECs. For example, the reported expense levels for Rural ILECs in study areas of approximately 40,000 loops fall in the range of roughly \$2-million to \$7-million (see Figure 4.1). Notably, no ILEC of that size has overhead expenses below the \$2-million level, so that \$2-million can be considered the minimum amount of overhead expenditures necessary to run an ILEC operation of that size, and thus an indicator of generally efficient performance of corporate overhead functions. <sup>82</sup> Once the best-performing (i.e., \$2-million level) ILECs have been identified, the other ILECs in that size class can be seen as performing less-efficiently, to the extent their individual expense levels are higher. <sup>83</sup> Our analysis employs this type of "best-in-class"

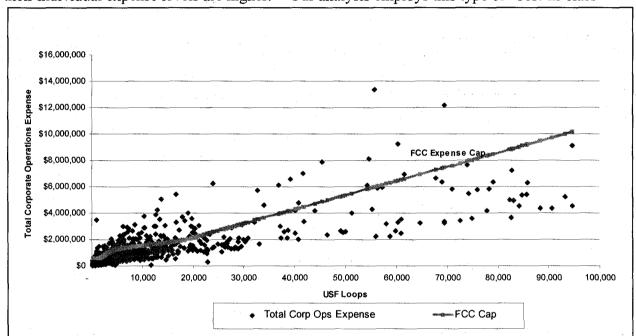


Figure 4.1. Rural ILECs - Corporate Overhead Expenses vs. Study Area Size (Loops).



<sup>81.</sup> The study areas with more than 100,000 lines are included in the dataset, but not shown here in order to improve the graph's legibility.

<sup>82.</sup> Of course, it is possible that even lower levels of costs (and thus higher efficiency) could be achieved if there were greater incentives to be efficient than exist in the current regulatory and operating environment. In that sense, the presumption that the lowest-observed cost level represents the highest achievable efficiency makes our analysis very conservative.

<sup>83.</sup> While any particular ILEC presumptively identified in this manner as "inefficient" might be able to point to some extenuating circumstance that justifies its relatively higher corporate overheads, the sheer number of ILECs reporting expenses well above the "best-in-class" levels, and their manifestly wide variation, argues for the robustness of the benchmarking approach here

evaluation, by defining specific size classes and performance thresholds, and then calculating the amount of expense for each ILEC that exceed the best-in-class level.

We have calculated "best-in-class" benchmarks for Corporate Operations expense, by grouping the Rural ILEC study areas into bands 2,000 loops wide (i.e., group 1 contains the Rural ILECs with 0-2,000 loops, group 2 has those with 2,001-4,000 loops, etc.). We created fifty such groupings, encompassing study areas of up to 100,000 loops. 84 For each group, we assumed that the "best-in-class" are those ILECs in the top 25 percent of their group, when sorted (in ascending order) by their reported Corporate Operations expense-per-loop levels. For example, there are 103 Rural ILEC study areas in the 4,000-6,000 Loops group, so that the best-in-class subset for that group consisted of the 25 study areas with the lowest reported expense-per-loop levels. 85 For each group, the (presumptively efficient) benchmark cost level was then calculated as the average expense per-loop within the best-in-class subset, multiplied times the upper breakpoint for the group (e.g., for the 4,000-6,000 Loop group, the upper breakpoint is 6,000). 86 Nineteen of the original size groupings contained no study areas (e.g., no study area had a loop count between 36,000 and 38,000 loops) and were thus dropped from the benchmarking. A best-fit trend line was determined for the remaining 31 datapoints using simple linear regression.<sup>87</sup> Figure 4.2 below shows the individual best-in-class datapoints, together with their associated trend line, superimposed on the under-100,000 loops data set. As to be expected, the trend line generally tracks the lower edge of the scatterplot of datapoints, as it represents the ILECs with the best performance, i.e. the lowest expense levels. The ILECs that report corporate operations expenses higher than the trend line are thus manifestly less efficient than their best-in-class peers, with the highest datapoints relative to the trend line indicating the highest degrees of inefficiency.



<sup>84.</sup> Beyond 100,000 loops, many 2,000 loop groupings would contain few or no study areas, so that benchmarking could not be conducted with those groupings. Limiting the benchmarking to 100,000 loops or less still captures 96% of the Rural ILEC study areas. Given the FCC's observation in the *Universal Service Report and Order* that the corporate overheads expense trend flattens out after 10,000 lines (*op. cit* at 8931, footnote 741), it is reasonable to assume that groups beyond 100,000 lines would generally follow the same trend line.

<sup>85.</sup> That is,  $103 \times 25\% = 25.75$ , truncated to 25. The 25% threshold was applied in this manner to all 50 groups.

<sup>86.</sup> Using the upper breakpoint rather than the middle of the class (e.g., 5000 loops) provides another aspect of conservatism to our analysis.

<sup>87.</sup> The T-statistic for the independent variable (size of the ILEC by loop) is 11.062, which is far above a one-tailed critical value (at 30 degrees of freedom) of 3.385, indicating statistical significance at the 99.99% level. Also, the R-squared value is 0.8084, indicating that the size (Loops) independent variable does account for the majority of the variation in Corporate Operations expense for the best-in-class ILECs.

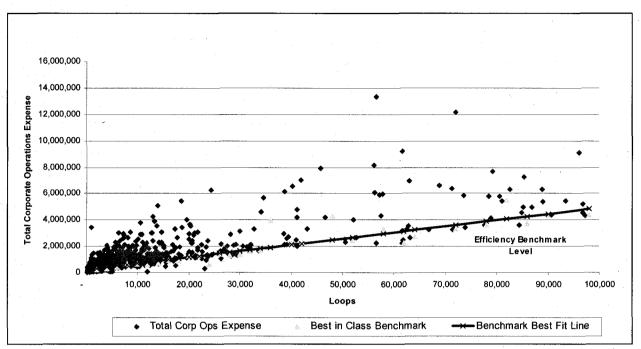


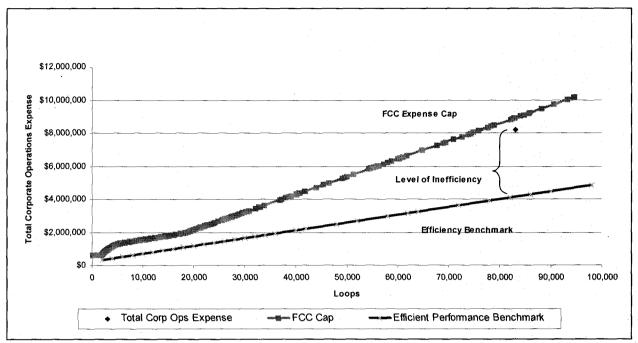
Figure 4.2. Benchmarking of Rural ILECs' Corporate Overhead Expenses.

We have also calculated the difference between the reported Corporate Operations expense for each Rural ILEC study area, and the presumptively-efficient expense level indicated by the trend line. While this benchmarking is insufficiently precise to quantify the degree to which any particular Rural ILEC is operating inefficiently, in aggregate, the total amount of claimed expense above the benchmark level provides a reasonable indication of the degree of inefficiency prevailing in the Rural ILECs' corporate overheads. Out of a total reported Corporate Operations expense for the 874 Rural ILEC study areas of \$1.655-billion, some \$545.0-million, or 32.9%, are expenses beyond the benchmark level estimated by the trend line. This indicates that *thirty-three percent*, *or nearly one-third*, of the Rural ILECs' claimed Corporate Operations expenses are being incurred in an inefficient manner. Looked at another way, the Rural ILECs are reporting total corporate overhead expenses that are inflated by nearly *fifty percent* above the presumably efficient level of \$1.11-billion in aggregate. <sup>89</sup>



<sup>88.</sup> Thirty-seven study areas are larger than the 100,000 loop threshold applied in our benchmarking analysis. If those study areas were excluded from the calculation of the aggregate excess expense (which is equivalent to assuming that they were all efficient enough to match the best-in-class trend line performance), the aggregate excess Corporate Operations expense still amounts to \$434-million, representing 26.2% of the total claimed expense level. However, there is no reason to believe that corporate overheads for the larger Rural ILECs should exceed the trend determined for the under 100,000 loop companies, if they were performing efficiently. Therefore, those additional study areas can also reasonably be evaluated relative to the benchmark trend line.

<sup>89.</sup> That is, \$1.655-billion divided by \$1.11-billion (i.e., \$1.655-billion minus \$545-million) equals a 49% overstatement.



**Figure 4.3.** The FCC Cap Will Not Prevent the Flow Through of Inefficiently Incurred Corporate Operations Expense into HCL Payments.

### Despite the FCC's expense cap, the lion's share of the Rural ILECs' inefficiencies in corporate overheads flow through into the calculation of High Cost Loop support amounts.

It is troubling enough that the Rural ILECs are reporting corporate overhead expense levels that are inflated by nearly fifty percent above the efficient level. If the Rural ILECs were not receiving the billions of dollars of universal service support that they collect today, those inefficiencies would translate into substantially higher rates for their customers. Instead, however, these inefficiencies largely are being passed into the federal USF system. Specifically, corporate overhead costs are an input into the per-loop revenue requirement calculations that are used to determine how much High Cost Loop support assistance each Rural ILEC can receive. As a result, to the extent that Rural ILECs' are claiming inflated levels of corporate overheads, their High Cost Loop support requirements are being exaggerated.

While the FCC's existing expense cap screens out some of the most excessive corporate overhead cost claims, in general it does not prevent the lion's share of those cost overstatements from being

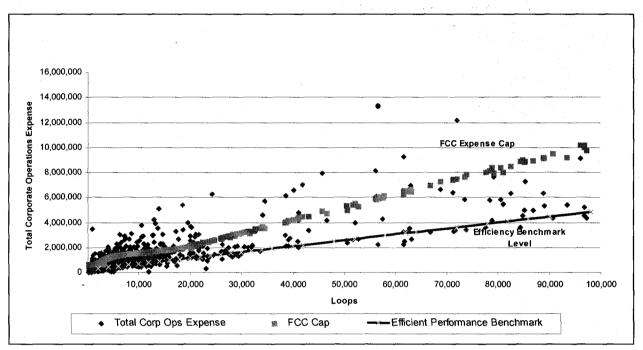


<sup>90.</sup> In theory, regulators could be more vigilant in applying RORR to these companies, but in reality regulators rarely have the resources to pursue full-blown rate cases for Rural ILECs.

flowed into the calculations of High Cost Loop support payments. Figure 4.3 illustrates this point, by showing the FCC's cap in relation to the benchmark trend line we have calculated. While the FCC's cap has the effect of disallowing any claimed expenses that are above the cap line, it will allow expense levels that are above the benchmark trend line level, but below the FCC cap, to flow into the High Cost Loop calculations. As illustrated in Figure 4.3, consider a Rural ILEC serving 85,000 loops, that reports total Corporate Operations expenses of about \$8-million. While that expense level is below the FCC cap, and thus allowed in its entirety for determination of High Cost Loop needs, it is about twice the benchmark level of \$4-million incurred by an efficient Rural ILEC. Thus in this case, some \$4-million of excess, inefficiently incurred Corporate Operations expense (marked as "Level of Inefficiency" in Figure 4.3) would flow into that carrier's cost-based calculation of its High Cost Loop support requirements.



Figure 4.4 below shows that there are in fact many Rural ILECs who are reporting Corporate Operations expense levels that are below the FCC cap, but nevertheless above the efficient benchmark level. When evaluated on the same basis as the aggregate excess calculation above, <sup>91</sup> the FCC cap excludes only 23.2% of the overstated corporate overhead costs, and allows the vast majority, some 76.8%, to be reflected in the per-loop revenue requirement entering into the HCL support calculations. While we have not attempted to precisely quantify the impact of the corporate overheads cost overstatements on the HCL payments, it is clear that they will have a significant impact.



**Figure 4.4.** The Lion's Share of Rural ILECs' Inflated Corporate Overheads Are Not Screened Out by the FCC's Expense Cap.



<sup>91.</sup> Our illustration is somewhat simplified, because the specific calculation employed for the HCL mechanism pursuant to 47 C.F.R. 36.621(a)(4) applies a ratio to the corporate operations expense that is intended to allocate only the portion of corporate operations expense attributable to loop plant. While this means that the overall corporate operations expense numbers cited herein do not flow into the HCL mechanism, the 23%/77% proportions we estimate are not affected by that allocation and thus remain valid.

# WIDE VARIATIONS IN RLEC OVERHEADS POINT TO INEFFICIENCIES

Chapter 4 of this Report provided an analysis of Rural ILECs' reported Corporate Overheads expenses based on a national dataset supplied by NECA. In this chapter, we supplement that analysis by examining the performance of Rural ILECs in three particular states, and consider their Corporate Overhead expenses in the context of their earnings (which is not presented in the NECA submissions). In general, we find that carriers operating in the same state and thus presumably facing similar exogenous conditions for at least some operational factors (e.g., wage rates, climate, etc.) still show enormous variations in Corporate Overhead expenses. While we do not find a clear relationship between earnings levels and Corporate Overheads, one reason for this may be that carriers that would otherwise be overearning can pad their overhead expenses in order to keep nominal earnings sufficiently low to avoid regulatory scrutiny by state PUCs. Supporting this notion, we provide an analysis of certain Texas Rural ILECs that shows that adjusting nominal earnings to recognize inflated corporate overheads tends to produce earnings levels well in excess of authorized rates of return, in several cases up to the 20% range.

The basic data for this analysis is drawn from annual financial reports filed by incumbent LECs operating in Ohio, Texas, and Wisconsin with those states respective public utility commissions. Our initial data set encompassed a total of 140 ILECs: twenty-four ILECs operating in Ohio, <sup>92</sup> fifty-seven operating in Texas, <sup>93</sup> and fifty-nine operating in Wisconsin. Most of our analyses have focused on data for the most recent year we were able to collect (for Ohio and Texas, year-end 2002 data; for



<sup>92.</sup> The Public Utilities Commission of Ohio ("PUCO") allows ILECs serving 15,000 or more access lines to file their access line counts on a confidential basis. While some Ohio ILECs (notably, Western Reserve) have supplied their access line counts on a public basis, the ones that did not were not included in our analysis.

<sup>93.</sup> While 58 report filings were reviewed, one carrier, Yipes Transmission, Inc., filed financial schedules populated only with zeroes, and thus was not included in our data set. Of course, the filing of such a vacuous "report" raises further accountability issues.

Wisconsin, year-end 2001 data). However, we also examined some historical data, particularly data from Wisconsin for years 1996-2001.

Figures 5.1, 5.2, and 5.3 below represent, for Ohio, Texas, and Wisconsin respectively, graphs of total Corporate Operations expense versus company size, as measured by access lines, for all of the ILECs in our data set with less than 20,000 lines. Figure 5.4 combines the data for the three states onto one graph. Two things are immediately evident from Figure 5.4: first, that there is a rough direct relationship between company size and the total magnitude of its Corporate Operations expenses; and second, that there is substantial variation among ILECs of similar size in the Corporate Operations expense levels that they report, with the smaller carriers showing the greatest divergence.

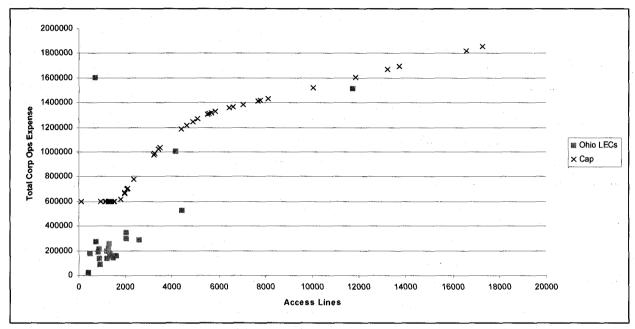


Figure 5.1. Small LECs Report Wide Variations in Overhead Expenses (Ohio).



<sup>94.</sup> The 20,000 line cut-off was chosen so that the graph's scale is sufficiently large to distinguish the smaller ILECs.

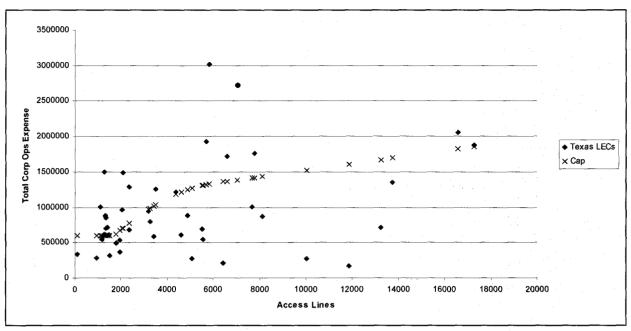


Figure 5.2. Small LECs Report Wide Variations in Overhead Expenses (Texas).

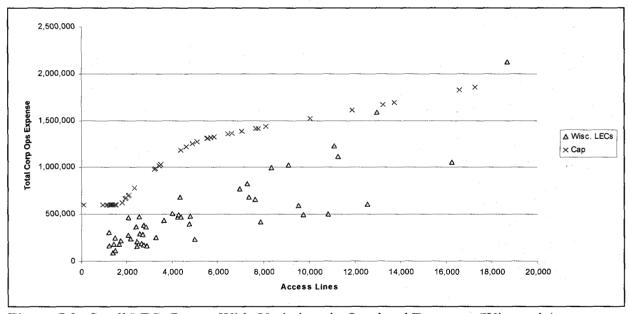


Figure 5.3. Small LECs Report Wide Variations in Overhead Expenses (Wisconsin).

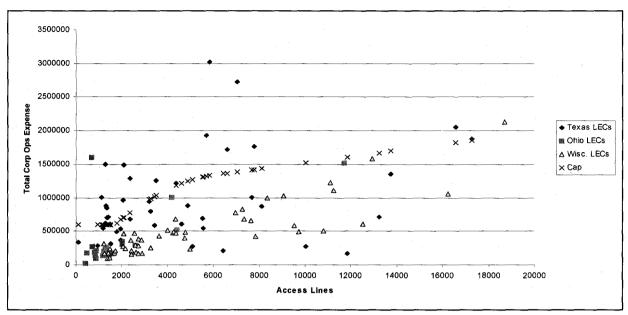


Figure 5.4. Small LECs Report Wide Variations in Overhead Expenses.

As an illustration of the first point, consider the average Corporate Operations expense for ILECs of various size ranges. For example, the ILECs sized between 2,000 and 4,000 lines report an average Corporate Operations expense level of \$505,000. This average grows to \$800,000 for ILECs in the 10,000 to 12,000 line range, and up to approximately \$1.7-million for ILECs sized 16,000 to 18,000 lines. Thus, the data generally confirms the relationship of Corporate Operations expense to size that we discussed earlier in this report.

Much more troubling is the variation in Corporate Operations expense for carriers of similar size. Using the same size ranges for illustrative purposes, we find that ILECs in the first category, 2000-4000 lines, report total Corporate Operations expenses between \$158,000 (Bayland Telephone, in Wisconsin) and \$1.49-million (West Texas Rural Coop), nearly a ten-fold range. In the 10,000-12,000 lines category, those expenses range between \$168,000 (ENMR, in Texas) and \$1.5-million (Ottoville Telephone Company, in Ohio). Finally, ILECs in the 16,000-18,000 line category reported expense levels between \$1.1-million (CenturyTel of Northern Wisconsin) and \$2.1-million (Etex Telephone Coop, in Texas).



<sup>95.</sup> Stockbridge and Sherwood's much higher expense level is not explained by its size, since it serves *fewer* lines than United Telco of Ohio (i.e., 2093 vs. 2430). *See* companies 2002 Annual Reports filed with the Ohio PUC. Moreover, two other ILECs in that size category, Mid-Plains Rural Tel Coop and Poka Lambro (both operating in Texas) have claimed Corporate Operations expenses in excess of \$1-million. *See* Rural ILECs, 2002 Annual Earnings Reports, filed with the Texas PUC, year ending December 31, 2002.

Equally striking is that the ILECs in the middle of Figure 5.4 have claimed the highest levels of Corporate Operations expense, which are substantially higher than carriers three times their size. The Valley Telephone Cooperative ("Valley Telephone"), a Texas ILEC located in southeast Texas (Raymondville), serves 7,042 lines but claimed \$2.7-million in Corporate Operations expenses in 2002. The Big Bend Telephone Company, serving even fewer lines (5,835) in southwest Texas, claimed an even higher \$3.0-million. In contrast, the three largest ILECs appearing on the right side of the graph, Etex Telephone Coop (Texas), Hill Country (Texas), and Utelco (Wisconsin), managed to serve customer bases of 16,000 to 19,000 lines while incurring nearly \$1-million less in Corporate Operations expenses. Moreover, numerous other ILECs of similar size to Valley Telephone and Big Bend were able to operate with far less overhead. As we explained earlier, there is no reason to believe that similarly-sized firms should incur such widely varying levels of overhead expenses.

Moreover, it is illuminating to consider overhead expenses in relation to other types of expenses that are incurred directly as a result of operating a network. For example, Cable and Wire Facilities ("CWF") Expense (Acct 6124) represents the expenses associated with maintenance and repair of a LEC's cable and wire facilities. Figure 5.5 presents a comparison of CWF expense and corporate operations expense for the Wisconsin LECs, with both data series expressed as a percentage of total operating expense. As Figure 5.5 illustrates, the corporate overheads tend to vary much more than does CWF expense; for the Wisconsin LECs, the standard deviation of the corporate overheads is more than twice that for the CWF expense (0.064 vs. 0.0268). This supports the conclusion that corporate overheads are less driven by requirements of the business than CWF expenses presumably are, and thus may be more susceptible to waste and manipulation.



<sup>96.</sup> These include the Southwest Arkansas Telephone Cooperative, operating in Texas (6,445 lines, but only \$209,000 in Corporate Operations expense); Wisconsin ILECs Vernon Telephone Cooperative (7,642 lines and \$659,000 in expenses); and Farmers Telephone Company (7,356 lines and \$683,000). See Southwest Arkansas Telephone Cooperative, 2002 Earnings Report to the Texas PUC, year ending December 31, 2002; 2001 data from the Wisconsin database provided by the Wisconsin PUC.

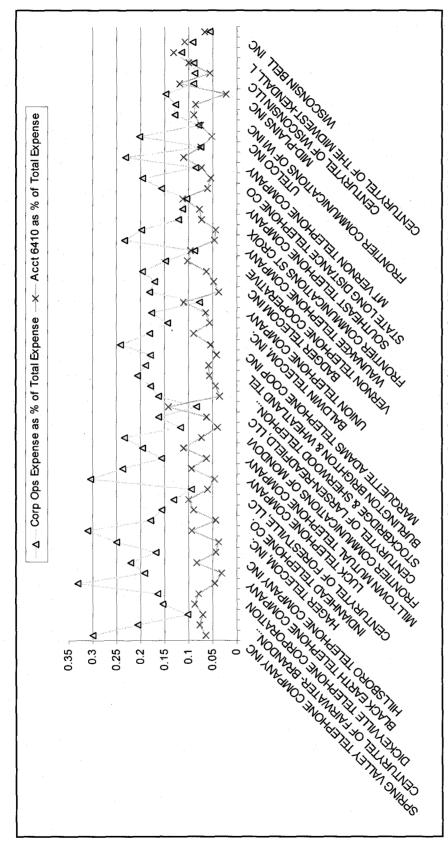


Figure 5.5. Wisconsin LECs - Comparison of Variability of Corporate Overheads and Plant-Related Expenses (Acct 6410, Cable and Wire Expenses



It is also revealing to calculate corporate overhead expenses on a per-line, per-month basis, which allows them to be considered in relation to what telephone subscribers typically pay for basic local telephone service (i.e., in the range of \$15-30 for residence service, and up to twice that range for business service). Table 5.1 below presents the ten worst-performing Texas Rural ILECs on that measure, together with five carriers reporting low overheads and the average for our Texas dataset.

		Table 5.1		
				•
		Texas Rural LECs		
Carriers of	laiming the	highest overheads a	_ <del></del>	
		Corporate	Corp Operations	
•		Operations	Expense / Total	
	Access	Expense per line,	Operating	
Company	Lines	per month	Expense	Reported ROR
Carriers claiming the high	nest overhe	eads:		
Border to Border	102	278.12	41.2%	26.7%
Riviera Telco	1,270	98.28	42.3%	4.2%
Lake Livingston Telco	1,120	74.55	46.8%	11.9%
West Texas Rural Coop	2,093	59.19	30.9%	2.5%
Brazos Tel Coop	1,323	55.51	39.7%	13.7%
Dell Telephone Coop	1,356	52.43	27.4%	12.3%
Industry Tel Company	2,348	45.67	37.3%	5.6%
Big Bend Tel Company	5,835	43.05	22.5%	16.6%
Five Area Telco	1,400	42.72	27.6%	5.6%
La Ward Telephone	1,294	39.65	40.7%	8.8%
Carriers reporting low over	erheads:			
West Plains	5,570	\$8.18	16.3%	17.1%
People Telephone Coop	13,737	\$8.18	13.7%	9.2%
Centel of TX	233,504	\$3.71	11.6%	18.4%
Cameron Tel Company	10,031	\$2.25	16.1%	13.1%
ENMR	11,862	\$1.18	40.7%	8.8%
Average for entire sample	22,694	28.67	33.9%	
Source: Texas PUC 2002 E	arnings Re	ports		
Note: Average includes 48 i	ural compa	nies for which 2002 r	eports were available	e.

Table 5.1 implies that larger LECs enjoy some scale economies in relation to overheads, as per-line corporate operations expense levels generally rise as the company size is reduced. Whereas Sprint/Central Telephone (Centel) of Texas, serving over 233,000 lines, has a monthly per-line value of \$3.71, the People's Telephone Cooperative, serving about 14,000 lines, reports corporate overheads of \$8.18 per line per month, and the level increases quickly for smaller carriers – up to the extraordinary situation of the Border to Border company, which only serves 102 lines and claims overheads of \$278 per line per month. While Border to Border may be an unfortunate anomaly, Table\ 5.1 raises a more general question. At least ten Rural ILECs in Texas are incurring overhead expenses that are some \$40 or more per line per month; even if these Rural ILECs had *zero* plant-related operating costs, in the absence of universal service support, those costs would be difficult or impossible to recover from the ILECs' customers without causing their basic telephone rates to be unaffordable. In that context, why should universal service support mechanisms allow those Rural ILECs to continue to operate at a manifestly inefficient scale? As we discussed in Chapter 3, non-rural carriers have undergone much more consolidation over the past decade than rural carriers, in part because they have not been insulated from economic forces to the extent that the smaller Rural ILECs have.

To the extent that overhead costs are excessive, they have a direct impact on a Rural ILECs' eligibility for and receipt of federal USF support under the existing mechanisms, because the need for support is based on the Rural ILECs' reported embedded cost per loop, including Corporate Operations expenses and other overheads. While the FCC-imposed cap on allowable corporate operations expense for HCL support has moderated the most egregious excesses (see Chapter 4), it has not eliminated the incentive to increase those costs at least to the cap level in order to obtain more universal service support. Moreover, the continuing high levels of overhead costs for rural LECs that we have documented (i.e., the year 2002 expense levels shown in Figures 5.1-4 and Table 5.1) indicate that the FCC cap has had little effect in actually changing rural LECs' behavior in this area.

One reason for this may be that carriers that would otherwise be overearning can pad their overhead expenses in order to keep nominal earnings sufficiently low to avoid regulatory scrutiny (e.g., by state PUCs). This point is illustrated by Table 5.2 below. This table identifies certain Texas rural LECs that claim high corporate operations expenses, and presents their nominal earnings (as measured by return on rate base) on a total company basis. <sup>97</sup> In addition, we have calculated an adjusted rate of return for each company, assuming that its corporate operations expenses were held to the FCC cap level for purposes of evaluating its earnings. If this adjustment were in fact made, each of the LECs in Table 5.2 would show significantly higher earnings levels. Most importantly, two would change from an apparent underearnings condition to overearnings, including the West Texas Rural Coop (rising from a 2.5% to 12.5% RORB) and the Riviera Telephone Company (from 4.2% to 13.8%), while three more would show earnings in the 20% range (Big Bend, Valley Telephone, and Brazos). In fact, these estimates are quite conservative, because as we demonstrated in Chapter 4, the FCC cap is set



<sup>97.</sup> We have used the total company basis calculation for illustrative purposes because it avoids complications arising from the jurisdictional separations process, e.g. the fact that HCL support is jurisdictionally intrastate.

considerably higher than the expense level that efficient Rural ILECs incur (see Figure 4-4), showing the FCC cap to be well above our efficiency benchmark line). If their corporate overheads were held down to efficient performance levels, these Rural ILECs' earnings would be even higher.<sup>98</sup>

Table 5.2

Selected Texas Rural ILECs- Year 2002 Data

Returns to Rate Base (RoRB) After Adjustments to Remove Excess Corporate Operations Expense

Company	Ex	porate Ops pense per ine, per month	Ca	Excess orporate Ops Expense	Reported ROR (Total Company)	Adjusted ROR (Total Company)	F	ederal USF support
Big Bend Telephone Company	\$	43.05	\$	1,663,402.68	16.6%	19.5%	\$	8,923,349.00
Valley Telephone Cooperative	\$	. 32.22	\$	1,313,055.97	16.3%	19.5%	\$	5,690,768.00
Riviera Telephone Company	\$	98.28	\$	887,026.00	4.2%	13.8%	\$	792,353.00
West Texas Rural Coop	\$	59.19	\$	766,681.11	2.5%	12.5%	\$	1,336,207.00
Industry Telephone Company	\$	45.67	\$	497,139.87	5.6%	10.3%	\$	542,711.00
Lake Livingston Telco	\$	74.55	\$	391,154.00	11.9%	18.9%	\$	886,025.00
Brazoria Telephone Company	\$	21.66	\$	328,025.98	14.3%	15.5%	\$	1,631,250.00
Central TX Cooperative	\$	18.87	\$	315,462.44	9.5%	10.1%	\$	4,234,389.00
Brazos Telephone Cooperative	\$	55.51	\$	270,421.00	13.7%	22.7%	\$	718,299.00

Excessive levels of overhead costs may also suggest the presence of inefficiencies in other areas of a LEC's operations. For example, Valley Telephone not only claims unusually high overhead expenses, but also an extraordinary level of Total Plant in Service ("TPIS") per access line, \$11,197 in 2002. This is 95% higher than the average among all Texas RLECs in our sample, and places it sixth highest of that sample. It is not surprising, therefore, to find that Valley Telephone and Big Bend are among the largest recipients of federal USF money in Texas, ranking 5<sup>th</sup> and 12<sup>th</sup>, respectively, for total annualized federal USF payments to Texas ILECs in 2002. While it is difficult to draw firm



<sup>98.</sup> We did not perform the latter calculation because reducing Corporate Operations expense to a level below the FCC cap could also trigger changes in the carriers' HCL payments, and thus their overall revenues. This complication is avoided in our calculation.

<sup>99.</sup> Universal Service Administrative Company, Fourth Quarter 2002 Filing to the FCC, Appendix HC01 ("High Cost Support Projected by State by Study Area – 4Q2002") ("USAC Fourth Quarter 2002 Appendix HC01"), available at <a href="http://www.universalservice.org/overview/filings/">http://www.universalservice.org/overview/filings/</a> (Accessed February 4, 2004). On an annualized basis, Valley Telephone received \$8.6-million and Big Bend received \$5.4-million in federal High Cost support. These companies also receive additional USF support from the state of Texas' separate Texas USF fund, which in 2002 amounted to \$5.3-million and \$3.3-million, respectively (See Rural ILECs, 2002Annual Earnings Reports to the Texas (continued...)

#### Wide Variations In RLEC Overheads Expenses Point to Inefficiencies

conclusions without much more detailed analysis and auditing of these companies, this evidence certainly suggests that a high degree of scrutiny is needed to ensure that carriers claiming such high costs warrant the large USF payments they are receiving.



<sup>99. (...</sup>continued) PUC, year ending December 31, 2002, Schedule I, line 6).

## RLEC MANAGEMENT WORKFORCE LEVELS CORROBORATE RORR-INDUCED INEFFICIENCIES

Another tool to evaluate the degree to which Rural ILECs are operating efficiently is to examine their workforce levels. In this chapter, we review the workforce levels maintained by a subset of Rural ILECs operating in Texas for which detailed workforce information is publically available. In general, we find that there is general consistency in workforce size to the company size for overall numbers of employees, and for sub-categories such as network-related employees and clerical staff. However, the numbers of telephone company officials and managers show little relationship to company size, and instead show wide variations among similarly-sized companies. While the sample size is too small to be definitive, it corroborates our earlier findings that corporate overheads are highly discretionary and subject to inflation and potential abuse.

The PUC of Texas requires ILECs to file detailed "Annual Progress Reports on the implementation of the Five-Year-Plan to Enhance Supplier and Workforce Diversity." These reports, similar to the Earnings reports must be filed with the Texas PUC on an annual basis. The progress reports include a mandatory "Workforce and Supplier Diversity" form. This form breaks down each ILECs' workforce by race, gender and job category. The Texas PUC supplies nine generic job categories into which all employees must be placed, namely Officials and Managers, Professionals, Technicians, Sales, Office and Clerical, Craftworkers (skilled), Operatives (semi-skilled), Laborers (unskilled), and Service Workers. Officials and Managers include a company president or CEO, vice presidents, and other managers. Professionals include staff attorneys, for example. The Technician category includes network engineers and others involved in planning and provisioning service. The Sales category include salespeople and customer service representatives. The Office and Clerical category includes secretarial staff and other administrative functions. The final four categories, Craftworkers, Operatives, Laborers, and Service Workers, include varying degrees of skilled and unskilled laborers. From this data, we can get a sense, not just of workforce size, but also of the allocation of employees in the firm.

Some ILECs out-source certain administrative and/or management functions to an affiliate, in which case its direct employee count would be understated relative to the total workforce level it would



require were it to perform those functions internally. In order to avoid potential distortions caused by affiliate transactions, we have screened out from our data set all of the Texas ILECs that reported making payments to an affiliate for any Corporate Operations function.

Table 6.1 presents some key workforce statistics for Texas rural LECs based on our analysis. One basic measure of carrier performance is the number of employees per access line (which for convenience is expressed in Table 6.1 as Employees per Hundred Access Lines). As Table 6.1 demonstrates, while the sample average value is 0.834, one LEC, the Five Area Telephone Company, has a value nearly four times higher (3.071), and several other companies have levels about double the sample average. This data reinforces the perception that there is a wide range in performance among these carriers, and that certain carriers are lagging behind in the efficiency of their operations.

			Table 6.1		······································		
	Compari	son of Employ	ee Data for Selec	ted Texas R	ural ILECs	_	
	Access	Total	Employees/100	Officials/M	Officials % of	Office/	O/C % of
Company	Lines	<b>Employees</b>	Access Lines	anagers	employees	Clerical	employees
Five Area telco	1400	43	3.071	8	19%	15	35%
West Texas Rural Tel Co	2093	34	1.624	3	9%	10	29%
Valley Tel Coop	7042	112	1.590	17	15%	26	23%
Dell Telephone Coop	1356	21	1.549	4	19%	6	29%
Poka-Lambro	3486	47	1.348	10	21%	14	30%
Industry Tel Co	2348	23	0.980	5	22%	5	22%
Riviera telco	1270	12	0.945	5	42%	4	33%
Cap Rock Tel Coop	5035	42	0.834	4	10%	12	29%
Big Bend Tel Company	5835	41	0.703	10	24%	11	27%
La Ward Tel	1,294	9	0.696	3	33%	2	22%
State Sample Average	22,694	189	0.834	· · · · · · · · · · · · · · · · · · ·			

Source: Rural ILECs, 2002 Workforce and Supplier Diversity Forms to the Texas PUC, Year Ending December 31, 2002.

Note: Average 48 includes rural companies for which 2002 reports were available.

Figures 6.1-4 below present graphs based on the Texas ILEC data. One would expect there to be a general relationship between the size of an ILEC and the size of its workforce. As an ILEC grows (as gauged by access lines), it needs more sales staff and customer service representatives, more craft workers to install and repair facilities, more office and clerical staff to provide administrative support, and more officers and managers for organization and leadership.



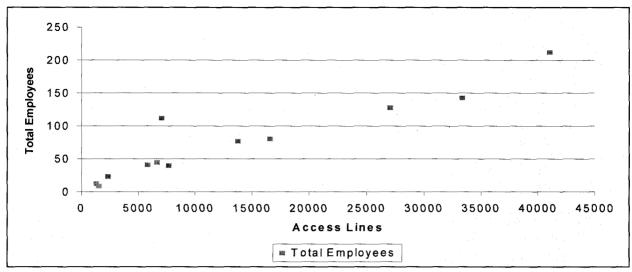


Figure 6.1. Total Employees vs. Access Lines (Texas Rural LECs).

Indeed, an analysis of the Texas workforce data reveals this relationship. Figure 6.1 (Total Workforce) shows that workforce on the whole increases with firm size. Given this general relationship, we would expect to find similar relationships between each category of employee and firm size. Although we expect individual firms to vary somewhat according to their own unique circumstances, in most instances the general relationship should stand. Figure 6.2 (Clerical) shows a clear trend that as firm size increases, the clerical staff also increases.

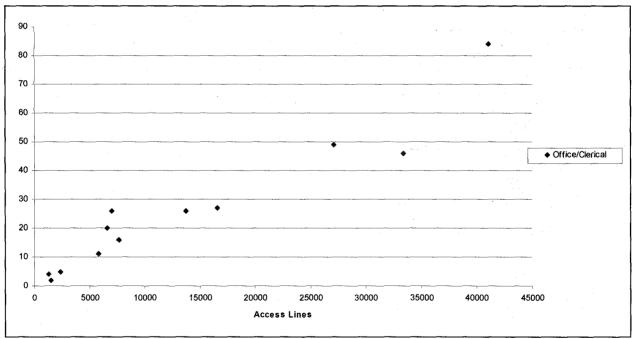


Figure 6.2. Office/Clerical Employees vs. Access Lines (Texas Rural LECs).



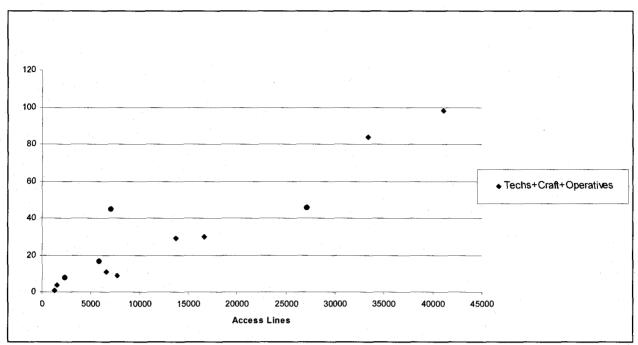


Figure 6.3. Network Personnel vs. Access Lines.

This affirms the assumption of the relationship between firm and workforce size. Figure 6.3 shows this trend. All of these Figures show both a relationship with firm size and also a similarity between firms of similar size.

Figure 6.4 (Officials/Management) however, shows a very different picture. The Officials/ Management employees graph is a veritable scattershot of points, with some of the smallest firms having the highest number of officials and management personnel. There is very little similarity between firms of similar size and there is no recognizable relationship with firm size. This finding should stand out as a red flag for potential inflation of Corporate Operations expense. Moreover, company officials and managers tend to be some of the highest salaried employees of ILECs, so that an increase in their numbers can have a disproportionate impact on the total level of Corporate Operations expenses.

This may partially explain, and in any event corroborates, the excessive Corporate Operations expenses reported by the Big Bend and Valley Telephone companies, as they also show anomalously high numbers of Official/Management employees. Big Bend reported ten officials and managers, while Valley Telephone claims to have seventeen, the highest number of any company in our data set, including companies six times its size (e.g., the Guadalupe Valley Telephone Cooperative, with twelve). There is no reason to believe that exogenous factors could be responsible for these companies' enormous management overheads. The dataset that we have been examining is too small to afford definitive conclusions. Nonetheless, this evidence appears to corroborate our earlier findings that rural ILECs



could be operating much more efficiently than they are, and that they likely need substantially less USF funding than they have been receiving.

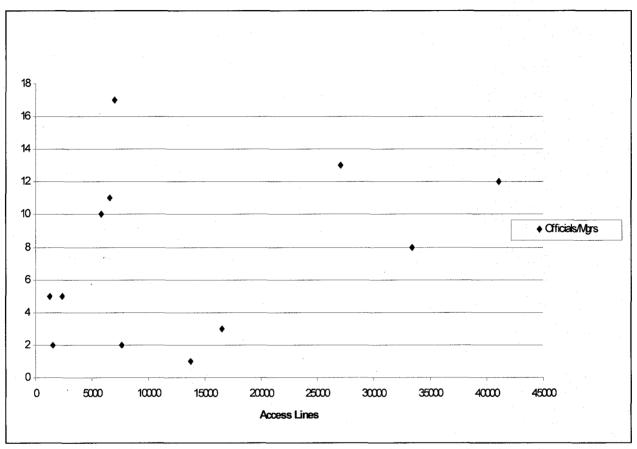


Figure 6.4 Officials/Management Employees vs. Access Lines (Texas Rural LECs).

# CASE STUDY PROFILES: OPPORTUNITIES FOR INEFFICIENCIES IN PRESENT RORR-BASED USF SYSTEM

As noted earlier in this report (Chapter 2), state and federal regulators generally have been unable to monitor, let alone meaningfully regulate, the conduct of the approximately 1350 Rural ILEC study areas in the U.S. Similarly, the sheer number and diversity of these companies limits the prospects for definitively analyzing how the Rural ILECs have been performing under the FCC's existing cost-plus based universal service support mechanisms. Thus far in this report, we have undertaken a detailed case study of one particular Rural ILEC, the Electra Telephone Company (see Chapter 2), analyzed the most recent NECA USF submission encompassing 874 rural ILEC study areas, and provided a series of analyses of over one hundred Rural ILECs operating in Ohio, Texas, and Wisconsin (see Chapters 3-6). This chapter supplements that work by profiling several more Rural ILECs in detail. While not intended to be systematic or exhaustive, these profiles help to illustrate the major performance differences that exist between the best-performing and the worst-performing rural companies, and underscores the key role that the RORR-based USF system plays in sustaining those companies with the worst performance. Based on our review of financial and operating data, certain Rural ILECs stand out as appearing to perform far less efficiently than their peers. Four of these companies are profiled below. They are: Valley Telephone Cooperative (Texas), Big Bend Telephone Company (Texas), Union Telephone Company (Wyoming), and Doylestown Telephone Company (Ohio).

#### Valley Telephone Cooperative ("Valley Telephone")

This rural cooperative is located in southeast Texas (Raymondville) and served 7,042 access lines in 2002. 100 Following are some key observations concerning Valley Telephone's workforce levels,



<sup>100.</sup> Valley Telephone Cooperative, Inc., 2002 Earnings Report to the Texas PUC, year ending December 31, 2002 ("Valley Telephone 2002 Earnings Report"), at 3.

Corporate Operations expense and overheads, plant-related expenses, overall earnings level, and current level of USF support.

#### Workforce levels

Valley Telephone claimed to have seventeen Official/Management employees in 2002, the highest number of any company in our Texas data set, <sup>101</sup> including companies six times its size (e.g, the Guadalupe Valley Telephone Cooperative, with twelve). Valley Telephone's total employee count in 2002 was 112, <sup>102</sup> approximately three times the staffing level reported by other similarly-sized Texas RLECs. <sup>103</sup>

#### Corporate Operations and overheads

The company also claimed \$2.7-million in Corporate Operations expenses in 2002. <sup>104</sup> In contrast, numerous other ILECs of similar size to Valley Telephone have been able to operate with far less overhead expense. <sup>105</sup>



<sup>101.</sup> Although data is available for 56 companies, our analysis is comprised of 21 companies.

<sup>102.</sup> Valley Telephone Cooperative, Inc., 2002 Workforce and Supplier Diversity Form to the Texas PUC, at Exhibit 1 (2002 Employee Breakdown).

<sup>103.</sup> Compare to Brazoria Telephone Company (6,609 access lines, 44 total employees) and Taylor Telephone Cooperative (7,662 access lines, 40 total employees). *See*, Brazoria Telephone Company, 2002 Earnings Reports and Workforce and Supplier Diversity Forms to the Texas PUC; and Taylor Telephone Cooperative, 2002 Earnings Reports and Workforce and Supplier Diversity Forms to the Texas PUC.

<sup>104.</sup> The company's claimed Corporate Operations expenses were even higher in 2001, at \$3.1-million. See, Valley Telephone Cooperative, Inc., 2001 Earnings Report to the Texas PUC, year ending December 31, 2001 ("Valley Telephone 2001 Earnings Report") at 3; and Valley Telephone 2002 Earnings Report, at 3.

<sup>105.</sup> These include the Southwest Arkansas Telephone Cooperative, operating in Texas (6,445 lines, but only \$209,000 in Corporate Operations expense); Wisconsin ILECs Vernon Telephone Cooperative (7,642 lines and \$659,000 in expenses); and Farmers Telephone Company (7,356 lines and \$683,000). Southwest Arkansas Telephone Cooperative, 2002 Earnings Report to the Texas PUC, year ending December 2002; and Wisconsin PSC database, 2001 values (for Wisconsin companies).

#### Plant-related expenses

Valley Telephone claims an extraordinary level of Total Plant in Service ("TPIS") per access line, \$11,197 in 2002. Valley Telephone's rate base (which includes the annual revenue requirement for its net plant, plus operating expenses) on an unseparated, total company basis is \$5219 per access line. This figure is 95% higher than the average rate base for all Texas RLECs in our sample

#### Overall earnings level

Perhaps most striking is the fact that Valley Telephone has been able to remain profitable despite these very high expense levels. Measured on an unseparated, total company basis, Valley Telephone reported an overall rate of return on rate base ("RoRB") of 17.1% in 2001, and 16.3% in 2002. <sup>106</sup> When the company's rate base is adjusted to remove Corporate Operations expenses above the level permitted by the FCC in the computation of access line expenses for the HCL support mechanism, the 2002 earnings level increases to 19.5%. <sup>107</sup>

#### Current level of USF support

The primary reason that Valley Telephone is able to remain profitable, despite its unusually high levels of claimed costs, is because it receives a substantial portion of its revenues from universal service support mechanisms. In year 2002, its explicit USF subsidies totaled \$13.96-million, from its combined state and federal USF support. Valley received \$5.35-million from the Texas Universal Service Fund and \$8.6-million in Federal USF support. In total, these direct USF payments account for 68% of Valley Telephone's annual revenues (\$20.3-million in 2002). Additionally, Valley reports Network Access Revenues ("NAR") of \$4.2-million. In combination with USF support, this leaves only \$2-million (10%) of revenues being paid directly by end users for local and toll service.



<sup>106.</sup> Valley Telephone 2001 Earnings Report, at Schedule 2, line 73; and Valley Telephone 2002 Earnings Report, at Schedule 2, line 73.

<sup>107.</sup> See Table 5.2, reporting adjusted Rate-of-Returns for selected companies.

<sup>108.</sup> See, Valley Telephone 2002 Earnings Report, at Schedule 1, line 6; and USAC Fourth Quarter 2002 Appendix HC01.

<sup>109.</sup> Valley Telephone 2002 Earnings Report, at Schedule I. NAR is calculated by subtracting Federal High Cost Support (HCL, LSS, LTS, ICLS, and SV) from the reported NAR. The remainder reflects the actual interstate and intrastate network access revenues collected by the company.

#### Big Bend Telephone Company of Texas ("Big Bend")

Big Bend is located in Alpine, a small town in western Texas. Big Bend served 5,835 access lines in 2002. 110

#### Workforce Levels

Big Bend reports having 10 Officials/Managers in its employ during 2002.<sup>111</sup> Although this is not the largest count of Officials in our sample, it is strikingly large in proportion to the rest of the firm. Big Bend reports its total 2002 workforce as being 41, suggesting that more than 24% of its staff are Officials or Managers. An additional quarter of the Big Bend staff is made up of Office/Clerical workers.<sup>112</sup>

#### Corporate Operations Expense

Big Bend has the largest reported Corporate Operations Expense of any company in our Texas sample. The Big Bend earnings report reports \$3.01-million in COE in 2002. This reflects an astounding 50% increase from their reported COE in 2001. Again, this is significantly higher than many similar firms. 115



<sup>110.</sup> Big Bend Telephone Company of Texas, 2002 Earnings Report to the Texas PUC, year ending December 31, 2002 ("Big Bend 2002 Earnings Report"), at 3.

<sup>111.</sup> Big Bend Telephone Company of Texas, 2002 Workforce and Supplier Diversity Form to the Texas PUC, at Exhibit 1 (2002 Employee Breakdown).

<sup>112.</sup> Id.

<sup>113.</sup> Big Bend 2002 Earnings Report, at Schedule I.

<sup>114.</sup> Big Bend 2001 Earnings Report, at Schedule I.

<sup>115.</sup> See footnote 105 supra.

#### Plant-related expenses

Big Bend also has extremely high levels of TPIS per access line. As calculated from its 2002 report, Big Bend has \$14,201 of plant in service per access line. The reported rate base, on an unseparated, total company basis is \$6791 per access line. More than Valley Telephone, this rate base is dramatically higher than its peers.

#### **Overall Earnings Level**

Also similar to Valley Telephone, Big Bend has remained surprisingly profitable given its high expense levels. Big Bend reports its overall RoRB for 2002 at 16.6%, <sup>118</sup> just a few basis points higher than Valley. After adjusting the rate base to remove Corporate Operations expenses above the level permitted by the FCC, the 2002 earning level increases to 19.5%.

#### Current level of USF support

The primary reason that Big Bend is able to remain profitable, despite its unusually high levels of claimed costs, is because it receives a substantial portion of its revenues from universal service support mechanisms. In year 2002, its explicit USF subsidies totaled \$8.7-million, from its combined state and federal USF support. Valley received \$3.3-million from the Texas Universal Service Fund and \$5.4-million in Federal USF support. In total, these direct USF payments account for 37% of Big Bend's annual revenues (\$23.2-million in 2002) although this is likely an understatement. Big Bend's



<sup>116.</sup> Big Bend 2002 Earnings Report, at Schedule II.

<sup>117.</sup> Id.

<sup>118.</sup> Id.

<sup>119.</sup> Id, at Schedule I.

<sup>120.</sup> Federal support is drawn from USAC 2002 Fourth Quarter Appendix HC01.

<sup>121.</sup> Big Bend's 2002 Earnings Report is a good example of how difficult it can be to closely examine these companies for purposes of USF assessment. The Big Bend's 2002 Earnings Report, at line 22, claims interstate USF support of \$8.9-million. This number is a far cry from actual Federal support (\$5.4-million). Additionally, most carriers appear to report only HCL support on this line. It appears that Big Bend has reported its total USF support (i.e., all Federal and State support) here. If this is the case, other portions of the report are essentially invalid. Line 6 shows the Texas USF support, but for intrastate operations, if they have indeed treated the state USF funding as an expense, Big Bend is double counting its Texas support. Additional questions are raised about the NAR reporting. It seems unlikely that Big Bend is earning \$13-million in actual NAR (continued...)

reported NAR for 2002 was 13.4-million (57.8%). This means that only 4.6% of its revenues are generated from services sold to its customers.

#### **Union Telephone Company ("Union Telephone")**

This Rural ILEC is located in south-central Wyoming and served 6,874 access lines in 2002. <sup>123</sup> Following are some key observations concerning Union Telephone's workforce levels, Corporate Operations expense and overheads, plant-related expenses, overall earnings level, and current level of USF support.

#### Workforce levels

Union Telephone reported a total employee count in 2002 of 153: 75 full-time, 69 part-time, and 9 contract employees. <sup>124</sup> This is approximately three and a half times the staffing level reported by similarly-sized Rural ILECs operating in Texas. <sup>125</sup>



<sup>121. (...</sup>continued)

<sup>(</sup>line 3 minus Federal USF support) on 5,835 lines. Thus, it would appear that funds have been double counted here as well, which would inflate total operating revenues, and thus decrease the apparent USF as a percentage of revenues calculation. A look at the 2001 report shows interstate USF revenues to be, \$3.3-million. If both reports are correct, this would imply that Big Bend received almost a one-year, 170% increase in interstate USF support. There are many possible scenarios as to why the 2002 report is incorrect; it could be an honest mistake in calculations or maybe a typo. The fact and point remains that, not only is it impossible to gauge Big Bends performance using its own report, but it appears that gross errors are passing unchecked by regulators.

<sup>122.</sup> Big Bend 2002 Earnings Report, at Schedule I.

<sup>123.</sup> Utilities Annual Report of Union Telephone Company to the Wyoming Public Service Commission, Year ending December 31, 2002 ("*Union Telephone 2002 Report*"), at 15. The carrier serves customers in Albany, Carbon, Fremont, Lincoln, Sublette, Sweetwater, Teton, and Uinta counties. *Id.* at 3.

<sup>124.</sup> Union Telephone 2002 Report, at 5.

<sup>125.</sup> Compare to Brazoria Telephone Company (6,609 access lines, 44 total employees) and Taylor Telephone Cooperative (7,662 access lines, 40 total employees). *See,* Brazoria Telephone Company, 2002 Earnings Reports and Workforce and Supplier Diversity Forms to the Texas PUC; and Taylor Telephone Cooperative, 2002 Earnings Reports and Workforce and Supplier Diversity Forms to the Texas PUC.

#### Corporate Operations and Overheads

The company also claimed \$3.62-million in Corporate Operations expenses in 2002. These costs accounted for 14.8% of the company's total 2002 operating expenses. In contrast, numerous other ILECs of similar size to Union Telephone have been able to operate with far less overhead expense. In contrast, numerous other ILECs of similar size to Union Telephone have been able to operate with far less overhead expense.

#### Plant-related expenses

Union Telephone claims an extraordinary level of Total Plant in Service ("TPIS") per access line, \$13,083 in 2002. Union Telephone's rate base (which includes the annual revenue requirement for its net plant, plus operating expenses) on an unseparated, total company basis is \$7547 per access line.

#### Overall earnings level

Perhaps most striking is the fact that Union Telephone has been able to remain profitable despite these very high expense levels. Measured on an unseparated, total company basis, Union Telephone reported an overall rate of return on rate base ("RoRB") of 20.0% in 2002. This is a substantial overearning condition, considering that the company's last authorized rate of return was 10.0%. 130

#### Current level of USF support

The primary reason that Union Telephone is able to remain profitable, despite its unusually high levels of claimed costs, is because it receives a substantial portion of its revenues from universal service support mechanisms. In year 2002, its explicit USF subsidies were likely greater than \$5.77-million. <sup>131</sup> Wyoming offers \$2,461,303 in annual state USF support, but does not disclose a per-company



<sup>126.</sup> Union Telephone 2002 Report, at 12 (sum of Total Wyoming balance for Accounts 6710 and 6720).

<sup>127.</sup> Id. (total operating expense equals \$24.48-million).

<sup>128.</sup> These include the Southwest Arkansas Telephone Cooperative, operating in Texas (6,445 lines, but only \$209,000 in Corporate Operations expense); Wisconsin ILECs Vernon Telephone Cooperative (7,642 lines and \$659,000 in expenses); and Farmers Telephone Company (7,356 lines and \$683,000).

<sup>129.</sup> Union Telephone 2002 Report, as calculated.

<sup>130.</sup> Union Telephone 2002 Report, at 14 (citing decision of 6/3/1998).

<sup>131.</sup> USAC Fourth Quarter 2002 Appendix HCO1.

distribution breakdown.<sup>132</sup> In total, Union's Federal USF payments account for 14.6% of Union Telephone's annual revenues (\$39.6-million in 2002). Union's reported level of NAR for 2002 was \$12.8-million. This means that only 46.9% of its revenues are generated from services sold to its customers.

#### The Doylestown Telephone Company ("Doylestown")

Doylestown is located in Doylestown, OH a small town in the northern part of the state. Doylestown served 4,159 access lines in 2002. 133

#### Workforce Levels

Doylestown reports employing 22 full time workers during 2002. 134 Although this total count is available, the category break-down that is present in the Texas reports is not available in Ohio.

#### **Corporate Operations Expense**

Doylestown reports just over \$1-million in Corporate Operations Expense in its 2002 annual report. <sup>135</sup> This represents 29% of their total reported operating revenue. <sup>136</sup> Again, this is significantly higher than many similar firms. <sup>137</sup>



<sup>132.</sup> Email from Barbara Iverson, WUSF Specialist, Wyoming Universal Service Fund, to Colin B. Weir, Analyst, Economics and Technology, Inc. (February 12, 2004). Ms. Iverson offers WUSF total monthly support of \$205,108.58, but suggests that the company specific breakdown is proprietary information. Although Union's WUSF support is unknown, this figure would be added to the Federal support as noted above.

<sup>133.</sup> Annual Report of The Doylestown Telephone Company to the Public Utility Commission of Ohio, Year ending December 31, 2002 ("Doylestown 2002 Annual Report"), at 52.

<sup>134.</sup> Id., at 49.

<sup>135.</sup> Id., at 21.

<sup>136.</sup> Id., at 17.

<sup>137.</sup> See footnote 105 supra.

#### Plant-related expenses

Doylestown has high levels of TPIS per access line. As calculated from its 2002 report, Doylestown has \$1,903 of plant in service per access line. <sup>138</sup> The reported rate base, on an unseparated, total company basis is \$812 per access line. <sup>139</sup>

#### Overall Earnings Level

Doylestown reports a high RoRB, which seems surprising given its high expense levels. Doylestown reports its overall RoRB for 2002 at 23.3%. 140

#### Current level of USF support

The primary reason that The Doylestown Telephone Company is able to remain profitable, despite its unusually high levels of claimed costs, is because it receives a substantial portion of its revenues from universal service support mechanisms. In year 2002, its explicit USF subsidies totaled \$437,546 in Federal USF support. This represents 12.5% of 2002 revenues (\$3.5-million). In addition it reports \$2.2-million in NAR for 2002. This suggests that only 26% of its revenues are generated from services sold to its customers.



<sup>138.</sup> Id., at 10.

<sup>139.</sup> Id, at 11.

<sup>140.</sup> Id., at 11, 24.

<sup>141.</sup> USAC Fourth Quarter 2002 Appendix HC01. Note that there is typically a two-year lag between projections and actual disbursements to carriers.



TWO CENTER PLAZA BOSTON, MASSACHUSETTS 02108





February 2005

## A Review of the South Carolina Universal Service Fund



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Report to the General Assembly

## A Review of the South Carolina Universal Service Fund

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Members of the General Assembly requested the Legislative Audit Council (LAC) to conduct an audit of the South Carolina universal service fund (USF) administered by the Public Service Commission (PSC). The requesters asked the LAC to review the need for the fund. Because the state's interim LEC fund is closely connected to the universal service fund, we also assessed the need for this fund. We also reviewed the PSC's administration of the USF.

#### **Need for the USF**

The goal of universal service is to ensure the widespread availability of affordable local exchange telephone service. The S.C. universal service fund establishes a complex system by which consumers pay a surcharge on their telephone bills to support local telephone companies. The fund amounts to \$51 million for fund year 2004-2005. We concluded that the fund does not need to be continued in its present form and should be scaled down. This conclusion is based on several factors.

- ☐ Telephone companies receive support from the federal universal service fund. South Carolina companies received \$126 million in 2003. Support from the federal fund would continue in the absence of the state fund.
- The goals of universal service have largely been met. Ninety-three percent of S.C. households have telephone service, which is substantially at the national average.
- None of the eight other states in BellSouth's service area has a USF comparable to South Carolina's, and their basic telephone rates are equivalent to South Carolina's rates.
- The telecommunications market is rapidly changing. The number of wireless subscribers has increased dramatically. It is not an appropriate long-term policy to strongly regulate and subsidize one part of the market ("landline" providers of basic service) when an increasing part of the market (cellular and Internet-based providers) is unregulated and unsubsidized by the state.
- ☐ The state USF focuses on replacing companies' revenue rather than providing support to areas with high costs for local phone service. The companies do not have to provide evidence of revenue losses or use the funds provided to support basic local service.

The state USF should be scaled back to continue supplements for low-income subscribers and support for those lines for which companies can provide evidence that costs are excessive.

#### Interim LEC Fund

The interim LEC fund was established in 1996 to replace revenues lost when participating local exchange companies (LECs) reduced the access charges paid by long distance companies. The statutory purpose of this fund has been accomplished, and it should be phased out or transitioned into the universal service fund for those companies that demonstrate a need. Other issues related to the interim LEC fund include:

- ☐ The companies receive payments based on the number of minutes that long distance companies used their networks in 1996, with increases for growth. However, when companies have fewer customers and fewer minutes of use, their payments from the fund are not decreased.
- Although the law requires the interim LEC fund to transition into the USF, further statutory change is necessary to accomplish this transition.

## Administration of the Universal Service Fund

The Public Service Commission administered the state USF and interim LEC funds through 2004. Beginning in 2005, the newly-created Office of Regulatory Staff has assumed this responsibility. We found that the PSC did not implement adequate controls over the management of the state USF. Our findings about fund administration are listed below.

- ☐ The PSC has not ensured that companies receiving distributions from the USF comply with requirements for receiving the funds or have an ongoing need for them. The PSC does not review USF distributions to determine if promised rate reductions occurred or whether companies' projected revenue losses were actually realized.
- □ No financial audits of the universal service fund by an independent third party have been done. Both the guidelines and administrative procedures adopted by the PSC for the USF require annual financial audits of the fund, which has been operating since 2001.

The Public Service Commission did not have adequate policies and procedures to administer the state USF. Policies are needed to ensure appropriate controls. For example, policies would help fund managers ensure that contributors are identified and contribute as required, and that standard billing and collection procedures are implemented.
The PSC did not establish an adequate system to audit information provided by USF participants. The PSC did not conduct any audits of funds distributed to recipients and audited just 15 (8%) of the approximately 190 companies that contribute to the fund.
The PSC used inadequate computer systems to administer the state USF and did not have appropriate data entry controls. The software program the commission used since 2003 does not calculate late payment charges, and the PSC has not charged late payment fees since October 2003.
Until 2003 the state USF was administered by the PSC's audit department even though the audit department had responsibilities to audit as well as manage the fund. It is not appropriate for auditors to be responsible for reviewing activities they have managed.
It could be beneficial for the Office of Regulatory Staff to hire an independent and experienced outside administrator to manage the USF. Most other states that have universal service funds use an independent fund administrator rather than administering the fund within a state agency.

### Introduction and Background

#### **Audit Objectives**

Members of the General Assembly requested the Legislative Audit Council (LAC) to conduct an audit of the South Carolina universal service fund (USF) administered by the Public Service Commission (PSC). The requesters asked the LAC to review the need for the fund. Because the state's interim LEC fund is closely connected to the universal service fund, we also assessed the need for this fund. The requesters were also interested in the operations of the USF, including fund contributions and disbursements. Our specific audit objectives are listed below.

- Determine whether there is a need for the South Carolina universal service fund.
- Review the South Carolina interim LEC fund to determine whether there is an ongoing need for the fund.
- Determine whether the Public Service Commission had adequate controls over contributions and distributions from the universal service fund.

Our findings and recommendations are discussed in the report. See Appendix A for a glossary of terms.

## Scope and Methodology

We reviewed the need for the state universal service fund and interim LEC fund. We also reviewed the Public Service Commission's administration of the universal service fund. The administration of the USF and the interim LEC fund was transferred from the PSC to the newly-created Office of Regulatory Staff in January 2005, following the completion of our fieldwork. We did not review other programs administered by the PSC, including the administration of the interim LEC fund. The period of review was the period of existence of the USF and interim LEC fund, beginning in FY 96-97, when the General Assembly created these funds, through 2004.

We obtained information about fund administration from the PSC, including the following:

- Billing and accounting records.
- · Commission orders.
- Reports and other evidence submitted to the commission.
- Administrative procedures and guidelines.
- Audit records.

We also obtained and reviewed information from a variety of other sources, including the following:

- Federal Communications Commission and its administrative agency, the Universal Service Administrative Company (USAC).
- National Association of Regulatory Utility Commissioners (NARUC).
- National Regulatory Research Institute (NRRI).
- Public utility commissions in other states.
- South Carolina telecommunications companies.

We examined the need for the fund by considering federal and South Carolina laws and regulations pertaining to telecommunications regulation, other states' experience, and information about telecommunications in the United States. We assessed the PSC's fund administration using principles of sound business practice and internal controls.

One of our objectives called for an assessment of internal management controls over the USF. Findings related to this objective are discussed in Chapter 3 (see p. 27). Problems with the information system used to keep records of the USF and the lack of an audit of the USF indicated that the PSC's data about the fund could be unreliable (see p. 33). This information was not central to our objectives about the need for the funds, and we have reported its relationship to controls over fund administration. This audit was conducted in accordance with generally accepted government auditing standards.

## Universal Service — Background

The goal of universal service is to ensure the widespread availability of affordable local exchange telephone service (see Chart 1.1). The Communications Act of 1934 created the Federal Communications Commission (FCC) with the intent of making telecommunications service available to all U.S. citizens at a reasonable price. Advancing universal service by subsidizing the cost of basic local telephone service for some customers has been a long-standing policy of both the federal government and South Carolina state government.

Following the invention of the telephone, beginning in 1876, the Bell companies held a patent on telephone service for 17 years. After the patent expired, independent telephone companies began to be established. These companies provided local telephone service in small and rural areas that AT&T and its Bell companies did not want to serve due to the high cost of service delivery. The various companies providing service had to be connected to allow customers to make calls over a wide area. Gradually the

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industry established ways to compensate all companies for the portions of a call that used their networks.

#### Chart 1.1: Universal Service

#### WHAT IS UNIVERSAL SERVICE?

Providing basic local exchange telephone service, at affordable rates, upon reasonable request, to all residential and single-line business customers within a defined service area.

#### WHAT IS BASIC LOCAL EXCHANGE SERVICE?

For residential and single-line business customers:

- Access to basic voice grade local service with touchtone.
- Access to available emergency services and directory assistance.
- Capability to access interconnecting carriers.
- Capability to access service that allows the hearing or speech-impaired to communicate by sending messages over telephone lines.
- · Access to operator services.
- · One annual local directory listing.

Source: S.C. Code of Laws §58-9-10(9) and (16).

## Subsidies for Costs of Basic Telephone Service

The cost of providing basic local service at affordable prices to high-cost customers has been paid by all telephone customers through a system of subsidies. The system of charging for telephone services using "implicit subsidies" (see Chart 1.2) for basic local service developed over time as a result of decisions by the FCC and state regulatory agencies.

Local exchange carriers (LECs) were granted exclusive franchises to serve particular areas. In return, these LECs (incumbent LECs or ILECs) assumed an obligation to serve all customers within that area, no matter how remote the customer was or how sparsely populated the area. Some of these areas were expensive to serve. In order to keep rates for basic local service low, long distance rates were set above costs and revenues were divided among the companies to provide support for affordable local service. Also, to keep residential rates low, businesses were charged higher rates for the same services.

In the 1980s the market for long distance telephone service became competitive; a federal court ordered the break-up of AT&T's monopoly, and other companies, such as MCI, began to offer long distance services. The FCC developed and implemented the concept of access charges (see Chart 1.2). Access charges provided a way by which all long distance

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carriers could pay local exchange carriers for the costs of handling long distance calls as well as to continue to provide support for universal service. The costs of providing basic local service were subsidized by access charges and also by the rates telephone companies charged for other services, such as business lines and newer services, such as caller ID and call waiting.

# Chart 1.2: Telecommunications Definitions

#### WHAT ARE IMPLICIT SUBSIDIES?

Implicit subsidies occur when companies use the profits they earn from one service (such as business lines) to offset the loss they incur in providing another service (such as basic local residential service). Implicit subsidies are not shown on customers' bills.

#### WHAT ARE ACCESS CHARGES?

Access charges are the per-minute charges a long distance telephone company pays to both the caller's local telephone company and the local telephone company of the party being called.

# Telecommunications Act of 1996

Changes in the telecommunications industry, including the beginning of competition in the local telephone service market, meant that the system of regulating telecommunications services would require change. Local exchange carriers had been regulated as to what they could charge for basic local service and the rate of return they could earn. They made up deficits from basic service revenues by offering other services at prices much higher than cost (implicit subsidies). In a competitive environment, a new carrier could enter the market by offering certain services at a price much lower than that of the existing companies without any obligation to provide service to high-cost customers. In the Telecommunications Act of 1996, Congress sought to encourage competition in the telecommunications industry while still ensuring that universal service would be preserved and advanced.

The Telecommunications Act of 1996 provided generally that implicit subsidies embedded in telephone rates would be identified and removed. Rates would be based on the cost of providing the service. A fund would be established that would replace the function of the former subsidies (making implicit subsidies explicit) to keep basic local exchange service affordable. The federal universal service fund provides support to local exchange carriers and supports other entities, such as schools and libraries, to ensure that local telecommunications service is available and affordable to all citizens. Since 1998 the federal fund has been supported by contributions from all carriers, including wireless carriers, on the basis of their interstate and international retail revenues. The telephone companies pass these charges on to consumers and they appear on telephone bills (see p. 11). As of

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January 2005, customers pay a rate of 10.7% of their interstate calling charges to the federal universal service fund. Customers who make calls between states pay extra to subsidize basic local service. Customers who do not make out-of-state calls do not contribute to the federal fund.

# South Carolina Background

There are 25 incumbent local exchange carriers (LECs) in South Carolina. These companies have defined service areas in which they must provide basic local exchange service (see Chart 1.3). Some of these companies have been in business for many years. Many are family companies or rural area cooperatives. BellSouth is the largest of the incumbent LECs, serving more than half of the state's customers.

#### **Regulation of Telephone Companies**

The Public Service Commission (PSC) regulates the local exchange carriers. Traditionally they were under rate-of-return regulation, where the PSC determines the percentage of net profit that a company is allowed to earn. The approved rates of return for the S.C. incumbent LECs range from 9.4% to 13%. The rates that the companies can charge for basic local service are set by the PSC. If a company wants to increase its rates, the PSC reviews its financial records and earnings. According to PSC staff, none of the S.C. companies has requested approval for a rate change through this process since 1991.

Since 1994, some South Carolina incumbent LECs had the option to come under less stringent regulation, or alternative regulation. As of November 2004, five companies (BellSouth, Sprint, Verizon, Alltel, and Horry) have elected to use alternative regulation (S.C. Code §58-9-576) in which companies can adjust their rates within a certain range by giving notice, and the rates are valid unless challenged. The PSC does not do a comprehensive review of the company's financial position in this process.

The S.C. General Assembly passed an additional measure in 2004 which deregulates the prices that telephone companies charge for "bundled" services. Bundled services are different services, such as local telephone service, Internet access, cellular service, and satellite television services, which are offered to consumers at a single price. The trends in South Carolina's regulation of rates for basic telephone services are similar to those in other states. There is a general move from traditional rate regulation toward more flexible regulation and deregulation.



Chart 1.3: Telephone Map of South Carolina

Illustrated is a general representation of telephone company territories and LATAs in S.C. It is not intended to define the official territorial boundaries of any of the companies listed.

#### Chapter 1 Introduction and Background

Area	Company	Headquarters	
1	Alltel South Carolina	Matthews, NC	
□ 2	BellSouth	Columbia	
3	Bluffton Telephone Company	Bluffton	
4	Chesnee Telephone Company	Chesnee	
5	Chester Telephone Company	Chester	
6	Farmers Telephone Co-Op	Kingstree	
7	Fort Mill Telephone Company	Fort Mill	
<b>=</b> 8	Hargray Telephone Company	Hilton Head Island	
9	Home Telephone Company	Moncks Corner	
10	Horry Telephone Cooperative	Conway	
11	lancaster/Telephone Company	Lancaster	
12	Lockhart Telephone Company	Lockhart	
13	McClellanville Telephone Company	McClellanville	
14	Norway Telephone Company	Norway	
15	Palmetto Rural Telephone Cooperative	Walterboro	
<b>1</b> 6	PBT Telecom, Inc.	Gilbert	
17	Piedmont Rural Telephone Cooperative	Laurens	
18	Ridgeway Telephone Company	Ridgeway	
19	Rock Hill Telephone Company	Rock Hill	
20	Sandhill Telephone Cooperative	Jefferson	
21	Sprint	Columbia	
22	St. Stephen Telephone Company	St. Stephen	
23	Verizon	Myrtle Beach	
24	West Carolina Rural Telephone Cooperative	Abbeville	
25	Williston Telephone Company	Williston	

Source: South Carolina Telephone Association.

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# South Carolina Universal Service Fund (USF)

South Carolina has established a state universal service fund by which customers pay to subsidize the cost of basic local service for all. The federal Telecommunications Act of 1996, which established the features of the federal universal service fund, also provided that states could adopt regulations to preserve and advance universal service. This could include the creation of state universal service funds, as long as the state programs were "not inconsistent" with the FCC's rules.

In 1996, the South Carolina General Assembly enacted Act 354 which required the Public Service Commission to establish a universal service fund for distribution to those local exchange carriers that have an obligation to provide service to all customers within a defined area. The PSC was to determine the size of the fund. Act 354 also established a separate fund, an interim LEC fund (see p. 9), and provided a process to allow competitive carriers to furnish local telephone service in the territory of an incumbent LEC.

# Universal Service Fund Implementation

The Public Service Commission held three rounds of hearings to establish and begin implementation of the state USF. Some decisions made as a result of these proceedings, in commission orders issued from 1997 to 2001, are summarized in Chart 1.4.

After the companies submitted evidence of their costs to provide basic local service, the PSC determined that the annual amount of the fund when fully implemented would be \$340 million. All telecommunications providers, with the exception of wireless providers, were required to contribute to the fund; approximately 190 companies contribute annually.

The amount collected and disbursed from the S.C. USF in the first complete year was \$41 million. Each company's annual distribution remains unchanged unless the carrier requests additional support from the USF. As of November 2004, eight carriers had requested that their disbursements from the fund be increased. As of October 2004, the annual contributions and disbursements from the fund have increased to more than \$51 million. Beginning in November 2004, South Carolina telephone customers pay a 2.9% monthly assessment on interstate and intrastate calls for the state USF. This is in addition to the 10.7% charge on interstate calls for the federal USF.

#### Chart 1.4: Public Service Commission Decisions to Implement the State USF

#### **PSC Decisions Concerning the State USF**

- · The Public Service Commission would administer the fund.
- Contributions to the fund would be based on combined intrastate and interstate revenue. (The federal USF contributions are based on interstate and international revenue.)
- Wireless carriers would not be required to contribute to the state USF.
- Companies were authorized to recover their contributions to the fund through a surcharge on consumer bills.
- The fund would be implemented in a revenue neutral manner—incumbent LECs should reduce rates that were priced above cost to offset the amount received from the fund.
- The Lifeline and Link-up programs that offer low-income subscribers reductions in their telephone rates would be funded through the USF.
- The methodologies that various telephone providers would use to determine their costs to provide basic local telephone service were specified.
- Implementation of the USF would be phased in (phases defined in Administrative Procedures).
- As a first step, incumbent LECs were to reduce their access charges by 50% and recover that amount from the USF beginning October 2001.
- Long distance carriers that benefited from the reduced access charges were to reduce rates to their customers.
- Carriers would be required to provide additional information about their costs when they exceeded 1/3 and 2/3 of the amount originally determined to be their share of the fund.

# South Carolina Interim LEC Fund

Act 354 of 1996, the same Act which provided for the establishment of the state universal service fund, also established a second fund, the interim LEC fund. The purpose of this fund is to replace specific revenues for the participating telephone companies. Act 354 provided that the incumbent local exchange carriers (LECs) would immediately set their access rates for providing long distance service at the level of the access rates of the largest LEC in the state, BellSouth. This meant that they would lower their access rates to the level of BellSouth's rates. (BellSouth does not receive distributions from the interim LEC fund.) The LECs' loss of revenue resulting from this action would be made up from two sources:

- The increased revenue they would receive from raising their rates for basic local service to the state average over a period of five years.
- Payments from the newly established interim LEC fund.

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The law provided that contributors to this fund would be the carriers (mostly long distance carriers) who benefited from the lower access charges. This differs from the USF contributors, which include all carriers that provide service in South Carolina. Unlike the federal and state universal service funds, contributions to the interim LEC fund are not reflected directly in consumers' telephone bills.

The interim LEC fund was implemented prior to the USF. The PSC began collections for and distributions from this fund in 1997. Each year the PSC has adjusted the fund based on increases in the number of access lines per carrier and the number of minutes used by the contributors to the fund. The five-year period established in statute for the LECs to raise their rates to the state's average has passed, but the fund is continuing. The law (S.C. Code §58-9-280(M)) requires that the obligations of the interim LEC fund will transition into the universal service fund when "...funding for the USF is finalized and adequate to support the obligations of the Interim LEC Fund." However, legislative action would be needed to accomplish this transition (see p. 25).

### Administration of the Universal Service and Interim LEC Funds

Both the USF and the interim LEC funds are set up so that the amount collected is then disbursed monthly to the carriers who qualify for distributions. Neither fund maintains a significant balance. The administration of the state's universal service and interim LEC funds has changed. Both funds were implemented by the Public Service Commission, and were administered by the PSC through 2004. Act 175 of 2004 changed the responsibilities of the Public Service Commission and created a new agency, the Office of Regulatory Staff (ORS), which assumed some responsibilities formerly held by the PSC. The PSC continues to be responsible for setting policy and guidelines for the USF and the interim LEC fund. However, beginning in January 2005, the ORS is responsible for administering these funds.

# Need for the State Universal Service Fund and Interim LEC Fund

## No Long-Term Need for Current South Carolina USF

The South Carolina universal service fund (USF) establishes a complex system by which consumers pay to support local telephone companies. Consumers in South Carolina pay a surcharge to support the state USF. As of October 2004, this surcharge is 2.9% of the customer's interstate and intrastate calls. For 2004-2005, the fund amounts to more than \$51 million and the USF is not yet fully implemented. Consumers will pay a projected \$340 million annually when the USF is fully funded.

We found that the state USF does not need to be continued in its present form and should be scaled down. This conclusion is based on several factors.

- Telephone companies receive support from the federal universal service fund with South Carolina companies receiving \$126 million in 2003.
- The goals of universal service have largely been met.
- None of the eight other states in BellSouth's service area has a USF comparable to South Carolina's, and their basic telephone rates are equivalent to South Carolina's rates.
- The telecommunications market is rapidly changing. It is not an appropriate long-term policy to intensely regulate and subsidize one segment of the market (landline providers of basic service) when an increasing part of the market (cellular and Internet-based providers) is unregulated and unsubsidized by the state.
- The state USF focuses on replacing companies' revenue rather than providing support to areas with high costs for local phone service. The companies do not have to provide evidence of revenue losses or use the funds provided to support basic local service.

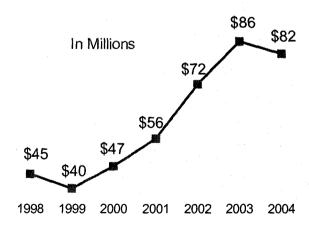
We concluded that some functions of the fund may need to continue, specifically the low-income support which contributes directly to the goals of universal service. Also, limited support for small telephone companies serving rural areas should be continued for companies that demonstrate this need.

# Federal Universal Service Support

South Carolina local telephone companies receive universal service support from the federal government which will continue without state support. The Federal Communications Commission (FCC) created a federal universal service fund (USF) to fulfill the policy of universal service established by the federal government (see p. 2). This fund has four main programs — high cost, low income, schools and libraries, and rural health care. South Carolina has received more than it contributes to this fund. South Carolina telephone companies, schools, libraries, and hospitals received almost \$126 million from the federal fund in 2003. S.C. companies paid approximately \$76 million, funded through a surcharge on consumers' bills.

The high-cost program of the federal USF allows telephone providers in areas where it costs more to provide phone service to recover some costs from the federal USF. The amount paid is calculated on interstate and international revenues using a contribution factor determined by the FCC each quarter. The contribution factor has increased from 5.877% in 2000 to 10.7% in 2005. South Carolina telephone companies received approximately \$82 million from the high-cost portion of the federal fund in 2004. Graph 2.1 shows how S.C. distributions from the fund have increased from 1998 to 2004.

Graph 2.1: S.C. Federal High-Cost USF Support



Source: Federal Communications Commission.

### Progress Toward Universal Service Goals

Although we could not identify a specific benchmark that would indicate that universal service has been achieved, it is clear that substantial progress has been made toward telephone service being readily available at a reasonable price. A 2002 survey by the National Regulatory Research Institute (NRRI) found that most states with state universal service funds did not have a specific standard to determine when universal service goals had been met. However, two states did have a specific penetration goal, such as 95%, and other states used the national average as a goal for universal service success. The percentage of households with telephone service has increased over the past 20 years (see Table 2.2), and South Carolina's rate (93.3%) is substantially at the national average.

Based on the current market (see p. 16), it is clear that some customers do not have basic telephone service because they prefer to use a wireless carrier. Also, evidence indicates that telephone service is affordable. According to data compiled by the Bureau of Labor Statistics, about 2% of all consumer expenditures are devoted to telephone service. This percentage has remained virtually unchanged over the past 15 years.

If the goals of universal service have been attained, it is a questionable priority for the state to allocate increasing resources to advance these goals.

Table 2.2: Percentage of Households With Telephone Service, November 1983 and July 2004

JURISDICTION	November 1983	JULY 2004	INCREASE
South Carolina	81.8%	93.3%	11.5%
United States TOTAL	91.4%	93.8%	2.4%

Source: Federal Communications Commission.

#### Other States' USF Funds

None of the other states in the nine-state BellSouth service area has a state universal service fund that is comparable to South Carolina's. We could not determine any conditions that make South Carolina uniquely in need of this fund. The federal Telecommunications Act of 1996 allows for states to establish funds in addition to the federal universal service fund. While approximately half of the states have established some sort of universal service fund, many of these funds are more limited than South Carolina's and different in scope and operations.

# Map 2.3: BellSouth's Primary Service Area

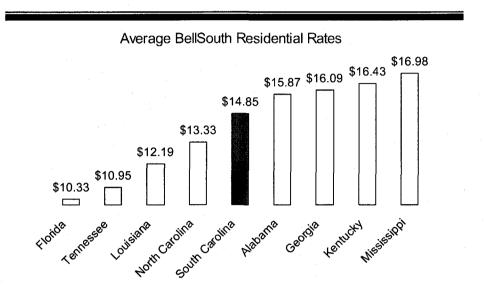


There are nine states in BellSouth's primary service area (see Map 2.3). In addition to South Carolina, two of these states have some type of universal service fund. Neither of these funds is comparable to South Carolina's USF.

- Kentucky has a universal service fund that supports only the Lifeline program, the program in which low-income citizens are given a reduced rate for telephone service (see p. 20). According to officials in Kentucky, the fund currently pays out about \$2.8 million annually.
- Georgia has a Universal Access Fund, which, when originally established, was similar to South Carolina's interim LEC fund (see p. 9). According to Georgia officials, the fund has been phased down. While originally 26 companies received funds, now just 5 small companies receive support totaling \$2.9 million annually.

We could not determine a reason that South Carolina's environment for telecommunications would differ significantly from that in the other BellSouth states. For example, we noted that the average BellSouth residential rates in the other states are comparable to the rates in South Carolina (see Graph 2.4). However, the other states have not needed to implement a state USF to maintain these rates.

Graph 2.4: Statewide Average BellSouth Residential Rates in BellSouth Region, September 2004



Source: BellSouth.

We also reviewed features of state universal service funds in other states not in BellSouth's service area. In 2002, the National Regulatory Research Institute (NRRI) completed a survey of all states regarding their universal service fund programs. The survey found that about half (24) of the 51 jurisdictions reporting had a fund. We obtained information to update this survey and contacted NRRI officials and an official with the National Association of Regulatory Utility Commissioners (NARUC). We identified some states with funds that are relatively similar to South Carolina's, such as Kansas, Maine, Nebraska, Pennsylvania, and Texas. However, we noted that each fund has different features.

South Carolina's fund is not like the majority of existing state funds in some significant features, discussed below. The way South Carolina funds its USF results in some customers paying a greater share toward funding the state USF than others. It also results in the same revenues being taxed for both the state and federal universal service funds.

#### **Contributions by Wireless Carriers**

Wireless carriers do not contribute to South Carolina's USF. The federal USF requires contributions from wireless carriers. Also, 15 of 23 state universal service funds reporting in the NRRI 2002 survey stated that wireless carriers were required to contribute to the state USF. South Carolina law requires all telecommunications providers (including wireless) to

contribute to the USF *if* the PSC determines that the company is providing services that compete with a local telecommunication provider. The PSC determined in 2001 that there was not enough evidence presented in its proceeding that any wireless provider competes with any local exchange carrier in South Carolina, and it reserved the right to revisit this issue. The PSC could reconsider, on its own initiative, contributions by wireless providers, or the Office of Regulatory Staff (see p. 10) or a carrier could petition the PSC to require wireless carriers to contribute. Competition from wireless providers is increasing and, as of December 2003, South Carolina had over 2 million wireless subscribers. The result of not requiring wireless providers to contribute is that customers of "landline" providers pay more than their share to support universal service in the state.

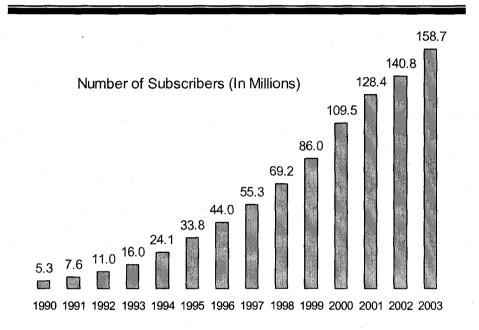
#### Contributions on Interstate and Intrastate Revenues

Contributions to the South Carolina USF are based on companies' interstate (for calls between states) and intrastate (for calls within S.C.) revenues. Contributions to the federal USF fund are based on companies' interstate and international revenues. Most other state universal service funds base their contributions on intrastate revenues only. According to the NRRI 2002 survey, the most common way that states collect universal service funds is a percent surcharge on revenues. Of the 22 states that used this method, 17 (77%) funded the USF by a percent surcharge on intrastate revenues only. A federal court has ruled that Texas could not fund its USF with a mix of interstate and intrastate revenues because it burdened interstate carriers more severely than intrastate carriers in violation of federal law. While South Carolina's funding mechanism has been found legal by a state court, it results in the same revenues (interstate) being taxed for both the state and federal universal service funds.

### Telecommunications Market is Changing

The options that consumers have available for telecommunications are changing and decrease the need for universal service support. When telephone service began, the carriers had a monopoly and were subject to regulation by the states. When a court ordered the break-up of AT&T's monopoly in 1984, local (AT&T and Bell) phone companies became subject to competition. Telephone companies have competition not only from traditional wireline phones but also wireless and voice over Internet Protocol (VoIP). According to the Cellular Telecommunications & Internet Association, as shown in Graph 2.5, the number of wireless subscribers nationally has increased from about 5 million in 1990 to about 150 million in 2003. As shown in Graph 2.6, telephone revenues are also shifting from long distance to wireless service.

Graph 2.5: National Mobile Wireless Telephone Subscribers



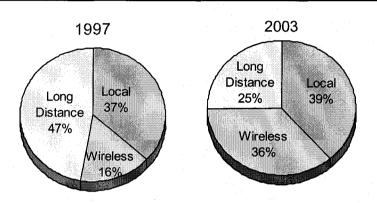
Source: Cellular Telecommunications & Internet Association.

Voice over Internet Protocol (VoIP) allows customers to make telephone calls using their Internet connection. This service is currently offered in S.C. Wireless and VoIP competitors are not subject to the same regulation as traditional telephone companies.

In a competitive market, rate regulation is not needed for consumers to have affordable choices. In a February 2002 order, the PSC noted that "competition in the local services market is strong in South Carolina." The Federal Communications Commission (FCC) monitors local telephone competition. In its latest report in June 2004, the FCC found that new entrants (competitive carriers) in South Carolina had 8% of the access lines and, from 2002 to 2003, wireless subscribers had increased 13%.

BellSouth officials stated that the FCC reports on competition understate the level of competition because the FCC only includes carriers with 10,000 or more access lines in its report. Only 14 competitive carriers in South Carolina were included in the report. However, BellSouth estimated that more than 55 competitive local carriers serve approximately 18% of the business market and 4% of the residential market in its S.C. territory. Competition has only increased in the almost three years since the PSC's 2002 order. In April 2004, there were 82 competitive carriers registered in BellSouth's territory.

Graph 2.6: Changes in Telecommunications Revenues



Source: Federal Communications Commission.

The universal service fund acts as a subsidy to allow incumbent local telephone carriers to reduce their rates to be competitive. The companies argue that the funds from the USF are used to subsidize the cost of basic service. However, the PSC does not verify that these funds are used for basic service or that the company has lost the amount of revenue they predicted when they reduced the rate (see p. 27). The carrier could be using these funds to unfairly compete and keep new entrants out of the market.

# State USF Not in Line With Concept of Universal Service

While universal service funds are commonly thought to assist companies in connecting customers who are costly to serve, in South Carolina all companies receive this support for most of their customers. The state USF is focused on revenue replacement rather than providing support to areas with high costs for local phone service. The philosophy of universal service is to keep local phone rates affordable for everyone. Support is targeted to those areas where it is costly to serve individual customers, such as in rural areas where a customer could live several miles from the telephone network. To determine the cost to provide basic service, phone companies use models specified by the federal and state government that allocate expenses to the service those expenditures support. These models assign all the costs of the local loop (the circuit from a customer's location to the telephone network) to basic service even though that loop carries all the services. As a result, the cost of basic service is increased when compared to the revenues received for the service.

Some areas qualify for USF assistance even though they may not be difficult or expensive to serve, such as within the city of Columbia.

Due in part to this cost allocation, for USF purposes, almost all of South Carolina is considered a high-cost area because the cost to the phone company to provide basic service is determined to be much greater than the rate received for the service. In reality, companies receive revenues from other services, such as Internet services, that use the lines whose cost is allocated to basic local service. From 1992 to 2002, the revenues that telephone companies received nationally from nontelecommunications sources increased from \$7 million to \$60 million. Because areas are considered high cost, they qualify for universal service assistance even though they may not be difficult or expensive to serve, such as within the city of Columbia. The federal USF provides additional high-cost support for those states where the costs for basic local service are 135% above the national average. South Carolina is not one of the eight states that receive funding from this source. Therefore, even using this cost allocation, S.C. costs are not extremely high and may not require additional USF support.

The operations of the state USF do not directly advance universal service but instead replace revenues. Phone companies receive support from the state USF by reducing rates that include implicit subsidies for basic service. The PSC does not verify that the USF support is still needed and that the funds are used to supplement basic service (see p. 27). By providing revenue replacement rather than a supplement for basic service rates, it is not clear that the support is for universal service.

The state consumer advocate, the S.C. Cable TV Association and the Southeastern Competitive Carriers Association have argued that the state USF operates in violation of state and federal law and that the telephone companies' costs are not allocated as required by law. The state circuit court ruled that the fund was established and operates as required by statute and that it advances the concept of universal service. The case has been appealed to the S.C. Supreme Court, which had not issued a decision as of December 2004.

### Options for State USF

The state USF could be eliminated or changed to provide support for those companies that can demonstrate a need for funding. The state has options to ensure that the fund is used to support universal service or can use alternate means to support universal service.

#### **Demonstrated Need for Funding**

The state USF could be phased down to provide support for those companies that demonstrate a need for funding. The Georgia Universal Access Fund was created to ensure reasonably priced access to basic local telephone service. According to a Georgia PSC official, originally 26 companies received disbursements from the fund. Currently only 5 small rural companies are receiving funds, and they must file cost studies to justify the need for the funds. The Maine Public Utilities Commission requires telephone companies to have a hearing to establish an allowed rate of return that the company can earn. Before a company can receive distributions from the state USF, the commission must find that its revenues will not be adequate. The South Carolina PSC could reduce the size of the USF in a similar manner. Companies requesting USF funding could be required to file detailed cost studies and be subject to reviews of their revenues.

#### Rate Regulation

Current options for rate regulation could help to compensate for the loss of universal service funding. In South Carolina, five larger companies have chosen to have their rates regulated by alternative regulation (see p. 5). Additional flexibility for pricing came with the deregulation of pricing for bundled services which was enacted in 2004 (see p. 5). Without legislative change, the Public Service Commission could also raise the amount below which telephone companies could raise rates without participating in a rate hearing. In order to provide universal service at affordable rates, however, telephone companies may need more flexibility in rate setting. Under current statutory provisions, companies can only adjust prices for certain basic services pursuant to an inflation-based index. By giving telephone companies more flexibility in setting prices, rates could be closer to actual costs and decrease the need for universal service funding.

#### **Low-Income Support**

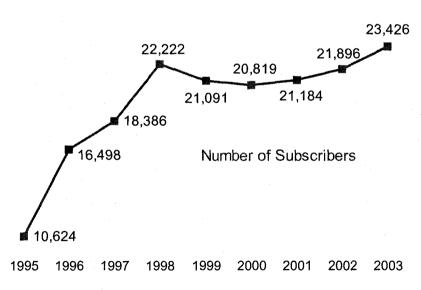
Universal service supports the goal that telephone service be affordable to all. Though telephone service is generally affordable to most consumers (see p. 13), South Carolina has a continuing need to provide assistance to low-income telephone subscribers. Both the federal and state USFs provide assistance to low-income individuals through discounts on the monthly cost of telephone service (Lifeline) and initial costs of beginning service (Link Up). Federal law establishes these programs and gives the states limited

flexibility in setting the qualification criteria. A consumer qualifies for assistance based solely on income or factors related to income.

The South Carolina USF provides \$3.50 per customer per month to match the federal low-income support. The payments from the federal USF to South Carolina carriers have increased from \$1.7 million in 1999 to \$2.7 million in 2003. The number of subscribers receiving low-income support has also increased as seen in Graph 2.7.

The South Carolina USF provides low-income support totaling approximately \$873,000 annually for an average of about 20,000 customers per month. However, this amount has not been adjusted as the number of subscribers has changed (see p. 29). Due to the growing number of subscribers receiving low-income support, the need for the continuation of this support in South Carolina is obvious. Kentucky has a USF that only provides low-income assistance.

Graph 2.7: S.C. Federal Lifeline Assistance



Source: Federal Communications Commission.

#### Conclusion

There is no long-term need for the current South Carolina Universal Service Fund. In order to ensure that this fund supports the goals of universal service and access to phone service at affordable rates, the state USF should be scaled back to include supplements for low-income subscribers and support for those lines for which companies can provide evidence that costs are excessive. Other states have supported universal service without a separate state fund and their rates are comparable to South Carolina. By changing the state USF, the goals of universal service could be advanced more directly and the funds would be used to reach the neediest customers.

Consumers would benefit from reduced charges on their telephone bills. USF payments to support the low-income programs, which would be continued, have accounted for approximately 2% of fund distributions. Some customers could experience increases in their bills due to redistribution of costs for service. However, customers would be paying directly for services they receive instead of subsidizing companies' overall revenues.

### Recommendations

- 1. The General Assembly should amend S.C. Code §58-9-280(E) to scale down the universal service fund to provide support for low-income subscribers and for those lines for which companies can provide evidence that costs are excessive, and to require the Office of Regulatory Staff to make annual adjustments to the contribution and distribution levels based on yearly reconciliations.
- 2. The General Assembly should pass legislation giving telephone companies more flexibility in adjusting rates.
- The Public Service Commission should require telephone companies seeking additional funding from the state universal service fund to file with the Office of Regulatory Staff detailed cost studies to show the need for USF support.
- 4. The Public Service Commission should require wireless providers to contribute to the USF.
- 5. The Public Service Commission should require USF contributions to be based on intrastate revenues only.

## Interim LEC Fund Should Be Phased Out

The state's interim LEC fund provides subsidies that should be eliminated or transitioned into the universal service fund for those recipients that could demonstrate need. The statutory purpose of the fund has been accomplished.

### Fund Established in Response to a One-Time Revenue Loss

In 1996, Act 354 established the interim LEC fund to replace revenues lost by incumbent local exchange telephone carriers (LECs) when they reduced their access charges, charges paid by long distance companies to use their networks. Participants agreed to immediately lower their access rates to equal the rates of the largest incumbent LEC in the state, BellSouth. Act 354 provided that the lost revenue would be replaced from two sources:

- Incumbent LECs were allowed to raise their rates for basic local service as high as the statewide average (\$14.85) over a five-year period.
- Companies that benefited from the access rate reduction would pay into the fund, and these payments would be distributed to fund participants.

After delay caused by opposition of the state's consumer advocate over the way in which consumers were notified of the rate increases, the rate increases were fully implemented over a seven-year period, which ended in 2003. It was envisioned that the amount of the fund would decrease during this period as the companies raised basic local service rates to the state average. As revenue was replaced by the rate increases, less would be needed from the fund.

# Increases in Size of Interim LEC Fund

We found that although basic rates increased, the size of the fund did not decrease as expected (see Table 2.8). In fact, the amount of the fund increased for two reasons:

- When BellSouth lowered its access rates in 1999 and 2002, the participating companies lowered theirs also, with the lost revenue recouped from the fund.
- A company's distribution from the fund increases if the company gains customers or minutes of use.

Table 2.8: Interim LEC Fund Payments by Fund Year

Fund Year*	PAYMENTS
1997	\$30,492,107
1998	\$27,218,039
1999	\$26,699,603
2000**	\$33,435,521
2001	\$35,168,277
2002	\$32,960,593
2003**	\$33,090,289
2004***	\$31,376,030

 Fund year runs from April to March of each year and disbursements are based on minutes of use from the preceding calendar year.

\*\* Participating companies lowered rates to match BellSouth's 1999 and 2002 reductions.

\*\*\* Fund size adjusted \$1.7 million downward after PSC staff discovered errors in determination of fund size.

Source: Public Service Commission.

The size of the interim LEC fund is not adjusted for negative growth. If a company gains minutes of use or access lines, the amount it receives from the fund increases, but if it loses access lines and minutes of use, its distribution is not lowered. For example, in 2003, one company had 1,531 fewer access lines and 7.7 million fewer minutes of use than the previous year, but its 2004 allocation was not reduced for negative growth.

Once the period of rate increases ended in 2003, the fund could not become smaller. The disbursements that incumbent LECs receive are based on revenue losses experienced in 1996 and will continue indefinitely unless the General Assembly enacts change.

Continuing the subsidy provided by the fund indefinitely does not allow for the effects of changing conditions. As discussed on page 16, the telecommunications market is rapidly changing. Companies are expanding the number of services they sell, and revenues from new services could lessen the need for the fund subsidies. Also, the interim LEC fund duplicates the function of the state USF. The interim LEC fund replaces revenue lost due to access rate reductions by the companies in an effort to make implicit subsidies explicit. The USF also reimburses companies for reducing access charges.

### Statutory Change Needed

S.C. Code §58-9-280(M) requires that the obligations of the interim LEC fund transition into the universal service fund when "...funding for the USF is finalized and adequate to support the obligations of the interim LEC Fund." This transition has not occurred, and is not possible without statutory change. Under the current structure the USF will never be adequate to support the obligations of the interim LEC fund, and the differing fund contributors would make a merger difficult.

#### **USF Obligations**

The state USF fund subsidizes companies when they reduce rates that contain implicit subsidies (see p. 4). The amount of the USF is calculated to cover projected revenue loss from specific rate reductions. The USF does not contain excess funds other than what is currently obligated to participating telephone companies.

#### **Fund Contributors Differ**

The interim LEC fund and the USF have different contributors which would make combination under the current structure impossible. As discussed, the interim LEC fund is funded only by the carriers (mostly long distance) that benefited from the access rate reductions. In 2004 there were 57 contributors to the interim LEC fund. The USF is funded by all telecommunications providers (approximately 190), with charges passed on to consumers through a surcharge on telephone bills. If the current obligations of the interim LEC fund were to become a part of the USF, customers would see an increase in their telephone bills.

# Impact of Discontinuing Fund

In many cases, companies receiving funding from the interim LEC fund would not suffer significant per line losses if it were discontinued, and revenue losses could be recovered by increasing rates. Based on the amount they receive from the fund and the number of customers they have, we calculated the loss of revenue per customer (access line) (see Table 2.9). On average the revenue loss would be \$3.13 per line per month. One carrier would lose just 1¢ per line per month.

In addition, those incumbent LECs that provide long distance calls (within South Carolina) also pay into the fund, as they receive reduced access charges for these calls. In 2003, incumbent LECs paid \$3,357,248 into the fund, which would reduce the estimated revenue loss from ending the fund to an average of \$2.80 per line per month. We noted that three companies paid more into the fund than they were allocated in fund distributions for the next year. In 2003 these companies paid \$809,628, and they were allocated just \$62,355 for 2004, a difference of \$747,273.

# Table 2.9: Impact on Companies From Ending Interim LEC Fund

Number of	REVENUE LOSS		
COMPANIES	PER LINE PER MONTH		
16	<\$5		
6	\$5-\$10		
2	>\$10		

### Options for Phase Out

As noted, some carriers could compensate for loss of interim LEC fund revenues by increasing their rates for basic local service. In 2004, the monthly rates charged by the incumbent LECs for basic residential service ranged from \$8.60 to \$18.83. In many cases, the increase would not be significant. Carriers that could not or did not want to make up revenue losses through rate increases could apply for funding from the USF. As discussed on page 20, we recommend that USF recipients should file detailed cost studies prior to receiving support.

### Recommendations

- 6. The General Assembly should amend S.C. Code §58-9-280(M) to eliminate the interim LEC fund and to provide that companies could recover resulting revenue losses by (1) adjusting rates, or (2) filing for USF assistance by submitting detailed cost studies and revenue information.
- 7. The Public Service Commission should require that interim LEC fund payments be adjusted for negative growth.

# Administration of the State Universal Service Fund

### Introduction

Table 3.1: Contributions and Distributions of the State Universal Service Fund for FY 01-02 Through FY 03-04

The Public Service Commission has not implemented adequate controls over the management of the state universal service fund (USF). We reviewed the administration of the fund since its inception in 2001. As shown in Table 3.1 below, the USF currently processes more than \$48 million per year that is ultimately paid by South Carolina's consumers.

72	CONTRIBUTIONS	DISTRIBUTIONS	
YEAR	TO STATE USF	FROM STATE USF	
FY 01-02	\$29,720,989	\$27,270,133	
FY 02-03	\$41,074,180	\$40,895,116	
FY 03-04	\$48,089,178	\$48,268,797	

The fund began operations in October 2001. Therefore, the amounts for FY 01-02 show only nine months of operation.

Source: Public Service Commission.

We found the following deficiencies in the PSC's administration of the fund:

- Lack of proper follow-up to determine whether companies comply with requirements or have a need for the subsidies.
- Failure to provide an independent third-party audit.
- Inadequate internal policies and procedures.
- No established system to audit participant information.
- Information system weaknesses.
- A conflict of interest with the administration and auditing of fund participants.

In addition, we discuss the options to improve controls over the USF by hiring an experienced, outside fund administrator.

# Follow-Up of USF Subsidies Lacking

The Public Service Commission has not ensured that companies that receive distributions from the USF comply with requirements for receiving the funds or have an ongoing need for the funds received. Instead, most companies continue to receive USF funding based on information submitted as of 2000. The PSC has disregarded the potential effect of changes in demand for service and changes in the telecommunications industry in order to maintain a constant flow of funds to the recipient companies. Improved controls over fund distribution are needed to ensure that consumers' payments are warranted.

No Follow-Up of Information Used to Determine Fund Distributions

Companies receive distributions from the USF on the condition that they will lower access rates and other rates that contain implicit subsidies (see p. 9). However, we found no evidence that the Public Service Commission staff has reviewed USF distributions to determine if companies' rates were actually lowered or whether information used to determine distributions was accurate (see p. 33).

The PSC did not obtain updated information required by the procedures it adopted to administer the fund. S.C. Code §58-9-280(E)(7) gives the PSC the authority to "...make adjustments to the contribution or distribution levels based on yearly reconciliations...." The USF administrative procedures require participating companies to report annually information relating to their USF distributions. However, the commission did not request this information from the companies on a yearly basis after implementing the USF. In June 2004, the commission's staff requested that the participating companies provide updated information for the years ending December 31, 2001, through December 31, 2003. We found that this information did not provide figures that would allow the commission to appropriately update the distributions paid to the participating companies.

In the initial phase of the state USF, the PSC ordered companies to reduce intrastate access charges from  $6\phi$  to  $3\phi$  per minute. In order to calculate the amount of USF support companies would receive, the PSC used minutes of use submitted by the companies for the year 2000. However, the information requested by the PSC in 2004 does not require companies to submit updated minutes of use for 2001 through 2003. The commission did not attempt to adjust state USF distributions based on the fluctuations in minutes of use for access charges.

Eighteen of the twenty-six companies receiving state USF support have not asked for an increase in their support. Therefore, they continue to receive a subsidy for lowering access charges based on minutes of use from the year 2000. The commission is allowing a subsidy to be paid to companies without any follow-up as to the need or justification for the subsidy. Allowing the amount of USF support to remain the same regardless of changes in demand for services or changes in the telecommunications industry does not adequately protect consumers.

### Low-Income Assistance Component Not Updated

The PSC has not updated USF distributions for the Lifeline program (see p. 20). Therefore, the participating companies are receiving USF support for the number of low-income subscribers based on data submitted in 2001.

As discussed above, the yearly reporting requirements pertaining to the state USF have not been enforced. These required reports would provide the PSC with an updated number of low-income customers for each participating company each year. This information could be used to update the distributions to companies for low-income customers. Our review of the three years of information requested by the commission in June 2004 revealed that the number of low-income customers has fluctuated widely for several companies. By updating distributions for the Lifeline program, the PSC would provide assistance to ensure that the state's low-income population has access to basic telephone service.

# Funding Increases Based on Projected Revenue Loss

The PSC has based distributions to companies on projected revenue losses without attempting to determine whether the losses have actually occurred. The commission has rejected the possibility that lowered rates could increase demand for the services. Company revenues could be greater than projected. Also, based on ongoing change in the telecommunications market, company revenues could increase from new sources of revenue, making USF support unneeded.

The Public Service Commission has not monitored current or considered future demand for services for companies receiving increases in their universal service funding. The commission granted USF funding increases to seven companies that requested increased support for lowering certain rates for services. Based on commission documents, it appears that these reductions were based on the level of customer usage of these services at the time of the requests, May 2002, and September 2003.

During the proceeding initiated in 2002, six companies asked for additional USF support. The South Carolina Consumer Advocate presented the testimony of an economic consultant who testified that the effect of increased demand should be taken into account when determining the appropriate state USF funding for participating companies. However, in its ruling, the commission rejected this argument stating that "[d]emand stimulation is hypothetical at best." Without a follow-up procedure, current or future demand for services is never reported to or analyzed by the PSC staff. Therefore, the commission has allowed companies to recover projected lost revenues based on outdated information without any monitoring to determine the effect on demand for services.

In fact, the PSC's order to award additional USF support dated September 2004, states that "Universal service support programs identify implicit support and convert it to explicit support so that the support will remain constant and not erode even if the demand for those services erodes." This order further states that if a company's minutes of use does decline, that is "...precisely the reason why State USF should remain static so that the support that keeps basic local exchange service affordable does not disappear with the access revenues." The PSC's actions obligate the state's consumers to subsidize certain telephone companies without regard for the appropriateness or necessity of these subsidies. Particularly, while the telecommunications market is in a state of constant change (see p. 16), the PSC should monitor and follow up on subsidies to determine whether they are needed.

### Recommendations

- 8. The Office of Regulatory Staff should enforce the yearly data requirements to ensure that companies provide current and relevant information necessary to administer the state universal service fund.
- 9. The Office of Regulatory Staff should implement procedures to update the low-income assistance component of the state universal service fund.
- 10. The Office of Regulatory Staff should regularly monitor company earnings to determine whether subsidies paid by consumers are necessary.

# Financial Audits of USF

Both the guidelines and administrative procedures adopted by the PSC for the USF require that annual financial audits of the state USF be performed. Although the fund has been operating since 2001, no financial audits performed by an independent third party have been done.

One of the responsibilities of the administrator of the state USF is to file with the commission "...the results of an annual audit of the fund performed by an independent third party...." This audit would provide information concerning the proper operation of the fund and would provide feedback in areas such as the appropriate segregation of duties, the safeguarding of assets, or any deficiencies in the design or operation of the fund's internal control environment. This information could assist management or oversight officials in the proper administration of the state USF.

We found that other states operating universal service funds, such as Kansas and Wisconsin, and the company administering the federal universal service fund have the financial statements of these funds audited by an independent auditor. These audits provide assurance that the financial position of these funds are presented fairly and properly show the results of operations and changes in fund balance.

The state USF accounts for more than \$48 million a year that is ultimately paid by consumers of telecommunications services. In the absence of an annual financial audit performed by an independent third party, the operations of the state USF have not been comprehensively and objectively evaluated.

### Recommendation

11. The Office of Regulatory Staff should ensure that annual audits of the state universal service fund are done by an independent third party as required by the guidelines and administrative procedures adopted by the Public Service Commission.

# Policies and Procedures

The Public Service Commission did not have adequate written policies and procedures to administer the state USF. Although the commission adopted "Administrative Procedures" in 2001, these procedures do not contain detailed information for the routine operation of the fund. In fact, the section pertaining to the responsibilities of the administrator contains only four brief entries comprising a half-page of information. Given the complexities of administering the \$48 million fund, these brief procedures are not adequate for identifying and billing fund contributors or for properly disbursing funds to recipients. For example, procedures are needed in the following areas:

#### **Correction of Errors**

PSC staff became aware that one company that contributes to the USF reported incorrect revenue figures and had been overbilled for over a year. When PSC staff learned of this problem, they had no written procedures in place to determine how to correct the error. Since the contributing companies are billed based on a percentage of total revenues, this type of error results in all contributors being billed incorrectly.

#### **Identification of Contributors**

PSC staff who administer the fund stated they are supposed to be notified when a new telecommunications carrier is certified to operate within the

state. However, no written procedures guide the process of identifying new fund contributors.

#### Reporting of Revenue by Contributors

In order to be appropriately billed for state USF contributions, telecommunication carriers must report their annual revenues to the PSC. If these reports are not filed in a timely manner, PSC staff make telephone calls to determine the reason. Again, there is no standard procedure for staff to follow in documenting their actions to ensure that all contributors are identified and report their revenue. In the absence of policies, it is likely that some companies that should contribute to the fund may not report and may not contribute. Obtaining accurate information about the revenues of fund contributors is particularly important since PSC staff use this information to calculate the new USF percentage rate to be passed along to telephone customers. This rate must be accurately calculated in time for telephone companies to update their billing systems each year.

#### **Penalties for Delinquent Accounts**

There are no clear procedures for PSC staff to follow for companies that habitually pay late into the state USF. Although the Administrative Procedures require a late payment charge to be assessed (see p. 34), there are no procedures for further action to be taken against companies that consistently do not pay on time. Actions such as canceling a company's certificate to operate within the state could be taken. A policy containing a range of penalties for repetitive delinquent accounts could act as a deterrent.

Written procedures provide a system of operating controls and are also necessary to ensure continuity of action when staff turnover occurs. The absence of written policies may result in inconsistent actions and inadequate controls over USF resources.

### Recommendation

12. The Office of Regulatory Staff should supplement the "USF Guidelines and Administrative Procedures" adopted by the Public Service Commission with adequate written internal policies and procedures to assist in the daily administration of the fund.

# Audits of Participant Information

The PSC has not established an adequate system to audit information provided by state USF participants. The administrative procedures covering the state USF allow the PSC, as administrator, to annually audit USF participants "...to ensure that all contributions are accurately assessed and distribution claims are valid." The PSC has made minimal efforts to audit fund participants.

The primary objective of establishing an effective audit program of participant information would be to ensure the reliability and integrity of information reported by the 190 companies that contribute to the state USF as well as the 26 companies that receive USF distributions. The PSC has not audited the distributions from the fund to ensure they are appropriately updated for changes (see p. 27), and audits of contributions have been few. From April through September 2003, only 21 audits were performed, and since some audits included two years of information, only 15 different companies were actually audited.

The 190 companies that contribute to the state USF self-report revenue information to the PSC which is used to calculate each company's contribution. The PSC has no way of ensuring that this information is accurately reported without auditing each company's books and records. In the absence of a continuous monitoring system to verify the self-reported data, companies may not provide accurate and timely information.

### Recommendation

13. The Office of Regulatory Staff should implement a system of auditing the self-reported data from participant companies in order to ensure accurate reporting by companies.

## Information System Weaknesses

The Public Service Commission has used inadequate computer systems to administer the state USF and does not have appropriate data entry controls. Approximately 190 companies are billed each month for a yearly total of more than \$48 million. Despite the large volume of transactions, the PSC first used a billing program set up in a simple spreadsheet. This spreadsheet software was not suitable for handling the numerous billings that were sent out monthly. In 2003, the commission developed an in-house database billing program. However, this billing program does not calculate late payment charges and has limited reporting capabilities.

# No Late Payment Charges

Since October 2003, the commission has not been charging late payment fees to USF contributors that do not pay on time. The billing program does not automatically calculate late payment charges. Formerly, staff manually calculated and entered late payment charges into the spreadsheet program that was used to calculate monthly billings. We reviewed late payment charges for the six-month period January through June 2002 and found that \$7,295 was billed to delinquent companies. According to the Administrative Procedures adopted by the PSC, "[1]ate payments to the USF will be assessed at the rate of .0493% per day" (18% per year).

Proper controls for administering outstanding balances require that late payment notices and monthly account statements be mailed to each contributor with a balance for the current month. We found that the commission does not send either of these documents to late payers. Instead, the monthly USF bills reflect a prior balance due line item which is added to the current month's billing amount.

The PSC uses the amount collected from contributors to determine the amount distributed to recipients in the following month. The South Carolina Telephone Coalition, which represents 21 companies receiving distributions from the state USF, commented that "...payments into the fund apparently are not being made on a timely or regular basis and monthly receipts fluctuate, which has resulted in somewhat erratic and unpredictable payments to recipients." The PSC does not have adequate methods in place to ensure timely collections (see p. 32).

# Inadequate Reporting Capabilities

The current USF billing system does not have capabilities to generate late payment reports. We requested a report that would provide information identifying companies that pay late. However, PSC staff stated that the system does not require that a payment date be recorded. As the system is currently designed, there is no way to know when a payment arrives. Therefore, a late payment report cannot be generated from the data in the billing system. A billing system should capture information that allows for the analysis of outstanding accounts through the use of overdue account reports. Without proper reporting, the commission does not have a reliable method to track companies that do not pay on time.

### **Data Entry Controls**

The PSC's system does not have adequate checks and controls on the accuracy of information used to administer the USF. A single employee is responsible for calculating the monthly billing amounts for contributors, determining the percentage that customers will pay on their bills, and the amounts of distributions to recipients. As discussed on page 31, the PSC does not have adequate policies and procedures for fund operations. Such policies could provide a system of verification of the data used and calculations made to ensure that billings and distributions are accurate.

### Recommendations

- 14. The Office of Regulatory Staff should develop an appropriate billing program which will encompass all necessary billing applications including calculating late payment charges and generating late payment reports.
- 15. The Office of Regulatory Staff should develop a system of verification of the calculations made and the data used in the administration of the state universal service fund.

## Fund Administered and Audited by Same Staff

The state USF was initially administered by the Public Service Commission's audit department even though the audit department had responsibilities to audit as well as manage the fund. The audit department administered the fund until fall 2003, when the administrative department assumed this responsibility.

The PSC's management assigned the agency's audit department to establish and administer the USF. These duties included determining amounts to be billed to contributors and distributed to participants. The Administrative Procedures adopted by the PSC provided for annual audits of state USF participants. These audits would "...ensure that all contributions are accurately assessed and distribution claims are valid." The commission's audit staff was responsible for setting up the USF billing procedure. In addition, they conducted a limited number of audits of contributions to the fund (see p. 33).

It is not appropriate for auditors to be responsible for reviewing activities they have managed. According to the Government Auditing Standards, "Auditors and audit organizations have a responsibility to maintain independence so that opinions, conclusions, judgments, and recommendations will be impartial and will be viewed as impartial by knowledgeable third parties." Auditors should be independent in fact and appearance in order to maintain credibility for their work.

## Recommendation

16. The Office of Regulatory Staff should ensure that auditors who review USF contributions and distributions do not have managerial responsibilities for the fund.

# Options for Improved Controls

The Public Service Commission administered the state USF since its inception in 2001. However, beginning in January 2005, the administration of the state USF is the responsibility of the newly created state agency, the Office of Regulatory Staff (ORS). Two options could be considered for administering this fund: an in-house operation similar to the PSC's, or contracting with an outside administrator.

Some benefits that an outside fund administrator could provide are:

- Software designed to meet the needs of the fund, including proper backup systems and disaster recovery plans.
- Internal control (written) policies covering collection, disbursement and administration procedures.
- Independence of the fund administration from the staff who would audit the fund.
- Bonding of key employees and the maintenance of appropriate insurance coverage.

We found that most other states that have universal service funds use an independent fund administrator rather than administering the fund within the state agency. The 2002 NRRI survey (see p. 15) found that 15 of the 25 funds reporting used a private contractor to administer the fund. In addition, the federal universal service fund is administered by the Universal Service Administrative Company (USAC). The USAC is comprised of six divisions, including such divisions as internal audit, strategic planning and operations and finance, which assist in carrying out the company's mandate to properly account for and oversee billions of dollars for the federal universal service fund.

The administrative procedures adopted by the PSC for the state USF include a provision for the fund's administrative costs. A part of the fund was

Chapter 3
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designated for "...costs incurred by the Commission-designated Administrator of the SC USF in the administration of the SC USF, including the audit expenses of an independent third party." According to PSC officials, the agency has not taken administrative costs from the fund, and an independent audit has not been completed (see p. 30). The costs for the PSC staff to administer the fund have been assumed by all of the regulated industries that provide funding for the PSC's operations.

By using an experienced fund administrator, established operational and administrative methods would already be in place and would not need to be established. The USF fund was designed to cover the cost of hiring a fund administrator. Based on the difficulties experienced by the PSC, proper administration of the \$48 million state USF should be a top priority of ORS.

## Recommendations

- 17. The Office of Regulatory Staff should investigate the costs and benefits of hiring an experienced fund administrator to properly administer the state USF.
- 18. The Office of Regulatory Staff should use the resources of the USF to cover the costs of administration.

Chapter 3
Administration of the State Universal Service Fund

# **Glossary**

**Access Charge** — The per-minute charges a long distance telephone company pays to both the caller's local telephone company and the local telephone company of the party being called.

**Access Line** — The circuit connecting the customer's place of residence or business to the local exchange carrier's switching center. A telephone company's number of access lines is approximately its number of customers.

**CLEC** — Competitive local exchange carrier. A telephone company in competition with incumbent local exchange carriers to provide the same services.

**Explicit Subsidies** — Payments made to a company to provide support for a specific purpose. Shown as a specific charge (for example, on consumers' telephone bills).

**Federal Communications Commission** — An independent U.S. government agency charged with regulating interstate and international communications by radio, television, wire, satellite, and cable.

**ILEC** — Incumbent local exchange carrier. Telephone companies with defined service areas within which they must provide service. South Carolina has 25 ILECs.

**Implicit Subsidies** — Implicit subsidies occur when companies use the profits they earn from one service (such as a business telephone line) to offset the loss they incur in providing another service (such as basic local residential service). Implicit subsidies are not shown on customers' bills.

**Interstate** — Between two or more states.

**Intrastate** — Within the same state.

**LATA** — Local access and transport area. With the break-up of AT&T, a U.S. court divided the country into LATAs. The Bell operating companies are permitted to carry toll calls only within LATAs.

**LEC** — Local exchange carrier. A local telephone company.

**Lifeline Program** — A program through which low-income customers can have their monthly charges for basic local telephone service reduced.

Appendix A Glossary

**Link-up Program** — A program through which low-income customers can obtain a reduced telephone service installation charge and pay for that charge over time.

**Minutes of Use** — The measurement in minutes of the time a local exchange carrier's network or equipment is in use. Long distance carriers pay access charges based on the number of minutes they use the LEC's network.

**Universal Service** — Public policy objective designed to make telecommunications service affordable and accessible to all citizens.

**VoIP** — Voice over Internet Protocol. VoIP involves the transmission of telephone calls over a data network like the Internet rather than through the regular telephone network.

# **Agency Comments**

Appendix B Agency Comments



# The Public Service Commission State of South Carolina

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February 18, 2005

Mr. George L. Schroeder Director Legislative Audit Council 1331 Elmwood Avenue, Suite 315 Columbia, South Carolina 29201

Re: A Review of the South Carolina Universal Service Fund.

Dear Mr. Schroeder:

Thank you for allowing the Public Service Commission ("PSC") the opportunity to comment on the Legislative Audit Council's report entitled *A Review of the South Carolina Universal Service Fund*.

The Legislative Audit Council ("LAC") makes several recommendations in this report regarding the Universal Service Fund ("USF"), the Interim LEC Fund, and the PSC's administration of these funds. The LAC's policy recommendations include scaling back the size of the USF and changing the nature of its subsidy of basic local telephone service. These recommendations represent a significant departure from the statutory framework adopted by the General Assembly in South Carolina Code Ann. § 58-9-280, and would require statutory change to be implemented. As a quasijudicial body charged with oversight of the USF and the Interim LEC Fund, the PSC does not have a position in regard to these policy choices. The PSC will exercise its oversight capacity to faithfully implement any changes that the General Assembly should decide to implement.

The LAC's report also identifies several shortcomings in the PSC's administration of the USF during the 2003-04 fiscal year. The PSC has recognized the same issues, and has been working to resolve them both internally and with the Office of Regulatory Staff, which assumed administration of the USF on January 1, 2005. The administrative shortcomings arose because the PSC lacked adequate resources and personnel to administer a fund of this size and complexity. Also, the PSC will soon consider substantial revisions of its administrative guidelines which will help ensure that the USF is administered in an efficient and professional manner.

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The following comments clarify several of the findings in the LAC's report.

# 1. The General Assembly established the state USF both to *maintain* and extend basic telephone service.

The purpose of the USF is to continue "South Carolina's commitment to universally available basic local telephone service at affordable rates and to assist with the alignment of prices and/or cost recovery with costs...to a carrier(s) of last resort." S.C. Code Ann. § 58-9-280(E).

A fundamental premise of the LAC's report appears to be that the USF should be scaled back because "the goals of universal service have largely been met". p. v. The LAC observes that "Ninety-three percent of S.C. households have telephone service." Id. Yet, when the General Assembly established the USF, wireline telephone service was virtually ubiquitous in the state of South Carolina, with a penetration rate of 91.3%.² Clearly, the General Assembly was at least as concerned with the maintenance of affordable universal service as it was with the extension of basic telephone services to new households.

Prior to the state USF, telephone companies set their rates following the principle that universal service should be supported by long distance, business services, optional services and directory advertising. As the LAC acknowledges, when the General Assembly created the USF in 1996, deregulation of the telephone industry was making it increasingly difficult for incumbent local exchange carriers ("ILECs") to implicitly subsidize service to the state's high cost areas with revenues from more lucrative services. The opening of the long distance market, the end of the ILECs' equipment rental and the creation of competitive local exchange carriers, rendered implicit subsidies obsolete.

Therefore, in the newly deregulated environment, the high, embedded and unrecovered cost of providing residential and single line business service throughout much of South Carolina was a major obstacle to maintaining universal service. The anticipated loss of revenues due to regulatory and competitive pressures on the

<sup>&</sup>lt;sup>1</sup> The state USF is a parallel mechanism to the federal USF. While it is a complement to the federal universal service fund, their functions are distinct. The federal USF fund only replaces subsidies from interstate services while the state USF replaces subsidies from intrastate services. Unless the federal fund is redesigned, it cannot perform the functions that the General Assembly assigned to the state USF.

<sup>&</sup>lt;sup>2</sup> Telephone Subscribership in the United States, Federal Communications Commission, January 1997 (Data through November 1996).

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ILECs was another obstacle. Thus, the General Assembly established the state USF in order to maintain the state's current levels of universal service, as well as to extend service to new customers.

The LAC points out that other states in the BellSouth service area have similar basic telephone rates to those charged in South Carolina, but do not have comparable universal service funds. However, a review of subscribership rates in the BellSouth states, as reported by the FCC Wireline Competition Bureau, does indicate that South Carolina has moved from sixth place in household penetration to a tie for third place since the state USF was initiated.<sup>3</sup>

				Average Residential
State	1996 % User	2004 % User	Change	Rate
Alabama	92.2 %	91.4 %	-0.8 %	15.87
Florida	93.1 %	93.3 %	0.2 %	10.33
Georgia	89.7 %	90.8 %	1.1 %	16.09
Kentucky	92.3 %	91.9 %	-0.4 %	16.43
Louisiana	91.1 %	90.7 %	-0.4 %	12.19
Mississippi	87.5 %	89.2 %	1.7 %	16.98
North Carolina	93.5 %	93.5 %	0.0 %	13.33
South Carolina	91.3%	93.3 %	2.0 %	14.85
Tennessee	94.0%	94.0 %	0.0 %	10.95

A number of factors can affect penetration rates. For instance, the states with higher penetration rates than South Carolina have average BellSouth residential rates that are as much as 30.4 % lower than BellSouth's average residential rate in South Carolina. A more detailed study of the markets in these states is needed in order to determine their implications for the effectiveness of state USF subsidies.

2. The PSC may consider whether wireless providers should be required to contribute to the USF as recommended by the LAC. However, this could only be done if, after a hearing, wireless providers are found to be competitive with landline companies.

The LAC recommends that the PSC require wireless providers to contribute to the USF. Currently, wireline local carriers are the only carriers of last resort in

<sup>&</sup>lt;sup>3</sup> *Id.* and *Telephone Subscribership in the United States*, Federal Communications Commission, October 2004, (Data through July, 2004).

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South Carolina.<sup>4</sup> Cellular providers are not regulated by the state of South Carolina, and do not contribute or receive support from the USF.

As stated by the LAC, the PSC has the authority to consider the question of whether wireless providers should be required to participate in the USF. This determination would require the presentation of evidence in a proceeding before the Commission. The Commission would have to determine whether or not the wireless providers are in competition with a local telecommunications service provided in this State. See S.C. Code Ann. Section 58-9-280(E)(3). If the Commission determines that there is such competition, it can require wireless carriers to contribute to the Universal Service Fund. The Commission has considered this question in a previous proceeding, but found that no such competition existed at that time, although the Commission reserved the right to revisit the issue. See Commission Order No. 2001-419 at 36-37.

It should be noted that if wireless providers were required to pay into the USF fund, they would also be entitled to apply for subsidies from the USF. Therefore, the LAC's assertion that customers of landline providers would pay less if wireless providers were included in the USF<sup>5</sup> is not a foregone conclusion.

3. The LAC's recommendation that USF subsidies be restricted to *Lifeline* and *Linkup* customers and to telephone companies who demonstrate revenue losses requires statutory change before it can be implemented.

The LAC also proposes that the USF subsidies should be restricted to individual customers who are eligible for *Lifeline* and *Linkup* subsidies, and to telephone companies that show a need for subsidies when providing service to high cost areas. See p. v.

However, the PSC is bound by S.C. Code Ann. § 58-9-280 (4) and (5) in this regard. These sections read, in part, as follows:

- (4) The size of the USF shall be determined by the commission and shall be the sum of the difference, for each carrier of last resort, between its costs of providing basic local exchange services and the maximum amount it may charge for the services......
- (5). Monies in the USF shall be distributed to a carrier of last resort upon application and demonstration of the amount of the difference

See p. 25 of the Report.

The term "Carrier of last resort" means a facilities-based ILEC which has the obligation to provide basic local exchange service, upon reasonable request, to all residential and single line business customers within a defined service area. S.C. Code Ann. § 58-9-10(10).

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between its cost of providing basic local exchange services and the maximum amount it may charge for such services.

In effect, the General Assembly has presumed that a company which can demonstrate eligibility under S.C. Code Ann. § 58-9-280(5), has a need for funding from the USF. Once a carrier of last resort demonstrates that its cost of providing basic local exchange services exceeds its maximum rates for such services, this difference must be paid to that carrier from the USF. The General Assembly did not condition this payment on a showing that the company's overall financial health would suffer without USF funding, and the PSC does not have the independent authority to impose this condition.

However, under this statute, companies seeking USF funds do have to file cost studies with the PSC, and the requirement has also been addressed by the PSC. The PSC ordered that the results from the cost models be updated by each local exchange carrier before that local exchange carrier's USF withdrawal exceeds one-third of its company-specific USF amount. Order No. 2001-419 at 40, 42. Also, the PSC does require companies requesting reimbursement from the USF to show a reduction in rates for services priced above cost as a condition for receiving monies from the USF. Order 2001-419 at 42. The LAC has noted that, in past years, the PSC did not systematically audit the companies' rates. The PSC did not have sufficient personnel to conduct these audits. However, the telephone companies are required to post their rates as part of their tariff filings, and these tariffs are subject to review and challenge by ORS, competing companies, and the general public.

The LAC is critical of the PSC because "The Commission did not attempt to adjust state USF distributions based on the fluctuations in minutes of use for access charges". p. 28. However, the USF does not subsidize switched access minutes of use, nor was it intended to do so. The switched access minutes of use in question are created by interconnecting companies' traffic, not local use by the ILEC's customers. The ILECs only submitted switched access minutes of use information in 2000 as part of their initial applications for withdrawal from the USF. At that time, information regarding switched access minutes of use was necessary to verify the initial "revenue neutrality" of their request. In other words, the minutes of use information was used to determine the amount of the implicit subsidy that switched access was providing to the high cost lines, and the amount of revenue (and, hence, subsidy) they would lose by lowering switched access rates.

However, once reductions in the rates charged for switched access have been made, a company's entitlement to USF funding corresponds to the number of access lines maintained by the company, not to the company's number of switched access minutes of use. This is because the access lines represent the fixed cost of servicing the high cost area, which must be borne by a telephone company. The

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fixed cost of a line remains the same, regardless of how much access traffic it bears for the ILEC.

Once switched access rates are reduced to rates that do not provide subsidy, additional USF withdrawal applications are based on reductions in other rates not associated with switched access. Therefore, subsequent information regarding a telephone company's switched access minutes of use would not be relevant.

# 4. The PSC agrees that new legislation would facilitate the merger of the Interim LEC Fund and the USF.

State law calls for the Interim LEC fund to be merged with the USF. The PSC agrees with the LAC, that further statutory changes could facilitate merger of the two funds.

# 5. The PSC is working to address the shortcomings in administration of the USF and will adopt revised administrative guidelines in the near future.

Since the fund was implemented in 2001, the PSC has attempted to administer the USF in a manner consistent with the spirit and letter of the law. While the PSC had the authority to charge an administrative fee to the USF, the PSC sought to ensure that all monies paid into the USF were paid out to qualified telephone companies and therefore it did not charge fees to the fund to cover the costs of administration. This decision led the PSC to rely on its limited staff to administer the USF. In retrospect, it is evident that, at least in some respects, the PSC lacked the equipment, training, and resources to administer the USF.

Many of the shortcomings in the administration of the USF identified by the LAC occurred because the PSC did not have adequate resources and staff to administer the fund. The PSC has already identified these deficiencies and has taken steps to correct them. For instance, the PSC recognized that inadequate follow up information was obtained from participating companies during much of the time relevant to this audit; therefore it began gathering this information from companies in July of 2004.

The PSC also agrees that its computer software was not adequate for the administration of the USF, and that the agency had inadequate billing capabilities and procedures. As noted by the LAC, the PSC sought to address the problem by developing an in-house database billing program in 2003, but that program proved to have flaws as well. In February of 2004, the General Assembly enacted legislation which transferred the USF and Interim LEC Fund to the newly created Office of Regulatory Staff ("ORS"), and that agency is implementing its own accounting and

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billing procedures. The PSC staff has been working with ORS to accomplish an efficient transfer of the funds to ORS.

Furthermore, the PSC agrees with the LAC's finding that the USF should have regular independent financial audits. The PSC would welcome an independent audit of the USF fund, and expects that such audits will be conducted in the future.

As noted above, the PSC is reviewing its administrative guidelines for the USF and Interim LEC Fund, and it will amend them in the near future, in order to implement the changes brought about by recent legislation. As part of this process, the PSC will also address the LAC's findings that various aspects of the current guidelines are inadequate.

#### CONCLUSION

In its oversight role, the PSC will work diligently to ensure the administration of the USF and the Interim LEC Fund in whatever form the General Assembly deems appropriate. The PSC will continue to work with ORS to ensure that the funds are administered in an efficient and professional manner.

With kind regards, I am,

Sincerely yours,

Randy Mitchell Chairman